K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

SCHOOL OF FASHION DESIGN

(SOFD)

BACHELOR OF ARTS-FASHION DESIGN

B.A FASHION DESIGN

Programme Code: 22

2020-23

Approved in the 23rd Meeting of Academic Council Held on 23 June 2020

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Content

1. Introduction

The K.R. Mangalam Group has made a name for itself in the field of education. Over a period of time, the various educational entities of the group have converged into a fully functional corporate academy. Resources at KRM have been continuously upgraded to optimize opportunities for the students. Our students are groomed in a truly inter-disciplinary environment wherein they develop integrative skills through interaction with students from engineering, management, journalism, and media study streams.

The K.R. Mangalam story goes back to the chain of schools that offered an alternative option of world-class education, pitching itself against the established elite schools, which had enjoyed a position of monopoly till then. Having blazed a new trail in school education, the focus of the group was aimed at higher education. With the mushrooming of institutions of Higher Education in the National Capital Region, the University considered it very important that students take informed decisions and pursue career objectives in an institution, where the concept of education has evolved as a natural process.

K.R. Mangalam University was founded in the year 2013 by Mangalam Edu Gate, a company incorporated under Section 25 of the Companies Act, 1956.

K. R. Mangalam University is unique because of its

  i. Enduring legacy of providing education to high achievers who demonstrate leadership in diverse fields.

  ii. Protective and nurturing environment for teaching, research, creativity, scholarship, social and economic justice.

Objectives

  i. To impart undergraduate, post-graduate and Doctoral education in identified areas of higher education.
  ii. To undertake research programmes with industrial interface.
  iii. To integrate its growth with the global needs and expectations of the major stake holders through teaching, research, exchange & collaborative programmes with foreign, Indian Universities/Institutions andMNCs.
  iv. To act as a nodal center for transfer of technology to the industry.
  v. To provide job oriented professional education to the student community with particular focus on Haryana.

2. About School

School of Fashion Design at K. R. Mangalam University is equipped to carry out both teaching and research. The faculty is in constant touch with various experts in the relevant field and is willing to experiment with latest ideas in teaching and research.

School of Fashion Design imparts students technical knowledge, enhances their skill and ability, motivating them to think creatively, helping them to act independently and take decisions accordingly in all their technical pursuits and other endeavors. It strives to empower its students and faculty members to contribute to the development of society and Nation.

3. Programmes offered by the School

B.A. Fashion Design Programme is designed to impart technical knowledge of fashion to the students and will provide theoretical as well as practical training in their respective fields.

3.1 B.A. Fashion Design

Realizing the potential of fashion industry and in line requirement of trained human resource the course of Bachelor of Arts in Fashion Design is developed. The studies in Bachelor of Arts in Fashion Design provides a wide array of Fashion and related areas that trains for designing Fashion with its various aspects. Students will gain fundamental skills and knowledge in Fashion Design and related Product development to create a sustainable, commercially viable yet an acceptable Fashion

Eligibility Criteria: -

The student should have passed 10+2 examination conducted by the Central Board of Secondary Education or equivalent examination from a recognized Board in any stream with an aggregate of 50% or more.

Course Outline: -

Meaning of Fashion/Awareness of historical and contemporary Fashion/Fashion Rendering/Study of fashion elements such as Fabrics, accessories/Styles and technology/Flat and draped pattern development/Construction techniques/Fashion Research/Technical specification/ Range building/ Portfolio presentation.

Career Options: -

Fashion designer, Stylist, Costume Designer, Illustrator, Fashion Entrepreneur, Retail Merchandiser and Visual Merchandiser.

Programme scheme

For three year Programme scheme, see Annexure A.

4. Programme Duration

The minimum period required for B.A. Fashion Design Programme offered by the University shall extend over a period of three Academic Years, i.e., 6 semesters. The Programme will be considered completed when the candidate has earned minimum courses and credits required by the Programme curriculum.

5. Class Timings

The classes will be held from Monday to Friday from 9:10 am to 4:10 pm.

6. Scheme of Studies and Syllabi

The scheme of studies and syllabi for first year for B.A. Fashion Design programme offered by SOFD is given in the following pages.

For each course, the first line contains; Course Code, Tittle and Credits (C) of the course. This is followed by the course objectives, syllabus (Unit I to IV), Textbook and Reference Books.

Three Year B.A. FASHION DESIGN COURSE AT A GLANCE

(B.A. Fashion Design)							
Scheme of Studies Year 2020-23							
	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI	TOTAL
Courses	8	7	7	9	8	6	45
Credits	28	22	19	26	21	18	134

ODD SEMESTER-I									
Year	SNo		Course Code	Course Title	L	T	S	P	Credits
First	1	CC(Project)	SFFD101A	Fibre to Yarn Studies	4	0	0	0	4
	2	CC(Project)	SFFD103A	Fundamental of Design	4	0	0	4	6
	3	SEC(Project)	SFFD151A	Pattern Making-I Lab	0	0	0	4	2
	4	AECC	SFEL145A	Communication Skills	2	0	0	0	2
	5	AECC	SFCH125A	Environmental Studies	3	0	0	0	3
	6	AECC	SFDM301A	Disaster Management	3	0	0	0	3
	7	GE		Generic Elective - I	4	2	0	0	6
	8	Mooc	SFFDMO11A	Online Course	0	0	0	0	2
	TOTAL				20	2	0	8	28

EVEN SEMESTER-II									
SNo		Course Code		Course Title	L	T	S	P	Credits
1	CC	SFFD102A		Garment Manufacturing Technology	3	0	0	2	4
2	CC	SFFD104A		Fabric Manufacturing	3	1	0	0	4
3	CC	SFFD150A		Fashion Art Illustration Lab	0	0	0	4	2
4	SEC	SFFD152A		Fashion Design Software -I Lab	0	0	0	4	2
5	SEC	SFFD154A		Pattern Making -II Lab	0	0	0	4	2
6	SEC	SFFD156A		Fashion Model Drawing Lab	0	0	0	4	2
7	GE			Generic Elective - II	4	2	0	0	6
TOTAL					10	3		18	22

Second	1	CC	SFFD201A	Textile Chemical Processing	3	1	-	-	4
	2	CC	SFFD203A	Overview of Fashion Industry	3	1	-	-	4
	3	CC	SFFD251A	Sketching-I Lab	-	-	-	4	2
	4	SEC	SFFD253A	Fashion Design Software -II Lab	-	-	-	4	2
	5	SEC	SFFD255A	Garment Construction Lab	-	-	-	4	2
	6	SEC	SFFD257A	Summer Training -I	-	-	-	-	1
	7	DSE		Discipline Specific Elective -I	-	-	4	-	4
TOTAL					**6**	**2**	**4**	**12**	**19**

1	CC	SFFD202A	Fashion Marketing & E-tailing	3	1	-	-	4
2	CC	SFFD204A	History of Fashion	3	1	-	-	4
3	CC	SFFD206A	Quality Control In Textile & Apparel	3	1	-	-	4
4	SEC	SFFD250A	Pattern Grading Lab	-	-	-	4	2
5	SEC	SFFD252A	Advance Garment Construction Lab	-	-	-	4	2
6	SEC	SFFD254A	Sketching-II Lab	-	-	-	4	2
7	SEC	SFFD256A	Sustainable Fashion	-	-	-	4	2
8	DSE		Discipline Specific Elective -II	-	-	4	-	4
9			MOOC	-	-	-	-	2
TOTAL				**9**	**3**	**4**	**16**	**26**

Third	1	CC	SFFD301A	Fashion Forecasting in Apparel Design	3	1	-	-	4
	2	CC	SFFD303A	Fashion Promotion & Communication	3	1	-	-	4
	3	CC	SFFD305A	Fashion Retail & Visual Merchandising	3	1	-	-	4
	4	SEC	SFFD351A	Art of Draping	-	-	-	4	2
	5	SEC	SFFD353A	Craft Design & Research Project	-	-	-	4	2
	6	SEC	SFFD355A	Summer Training -II	-	-	-	-	1
	7	DSE		Discipline Specific Elective -III	2	-	-	6	4
	8	VAC	VAC111A	Fashion Event Management	2	-	-	-	-
	TOTAL				13	3	0	14	21
1	CC	SFFD302A	Fashion Entrepreneurship Skills	3	1	-	-	4	
2	SEC	SFFD304A	Design Collection	-	-	5	10	10	
3	DSE		Discipline Specific Elective -IV	-	-	4	-	4	
4	VAC	VAC 108A	Boutique Management	2	-	-	-	-	
TOTAL				5	1	9	10	18	
Total Credit								134	

SEMESTER-I

SFFD101A   FIBRE TO YARN STUDIES   Credit-4

Course Objectives:
- To impart knowledge about textile fibres in terms of their origin and properties.
- To familiarise the students with the terminologies and concepts related to fibres spinning processes.

Course Learning Outcomes:
After completing this Course, the learner will able to:
- **CO1.** Classify the textile fibres based on length and origin
- **CO2.** State the difference between natural and man-made fibres
- **CO3.** Explain the importance and need of different blending techniques
- **CO4.** Describe basic and special yarn and its defects
- **CO5.** State the knowledge of Direct & Indirect yarn count and its importance.

Theory Contents

UNIT I
Textile Terminologies, Fibre – Classification, Composition /Origin/ manufacture of Natural Fibre: Cotton, wool, Skin etc. Composition /Origin/ manufacture of Manmade Fibre: Nylon, Polyester, PVC etc. Performance criteria of Fibre, Properties and characteristics of natural and manmade Fibre, Fibre blends.

UNIT II
Yarns Formation: Spinning of natural fibre- Blow room, carding, combing, drawing, roving frame and ring frame. Spinning of Man-Made Fibres- Melt Spinning, Dry Spinning, Wet Spinning.

UNIT III
Yarns Blends and composition and their spinning processes. Winding, Twist multiplier, TFO. Conditioning. Types of yarn and its properties. Packaging of yarns.

UNIT IV
Count System: Indirect & Indirect Count, New English Count, Metric Count, Woollen Count, Worsted Count, Denier Count, Tex Count and Decitex Count.

Textbook:
1. Bernard P Corbman, Textiles: Fiber to Fabric, New Year Macgraw Hill 2009

Reference Books:
1. Sara J. Kadolph, "Textiles", 11th edition Pearson India 2014
2. Mary Humphries "fabric reference" 4rth edition.

Teaching Learning Process:
- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Experimental learning through demonstrations and workshop
- Market Survey and Field-based learning

Assessment Methods:

As per University rules For each course the assessment is as follows:

For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course.

Key Words:
- Composition of Fibres
- Fibres and its blends
- Fundamentals of Textile Science
- Yarn Structure

SFFD103A   FUNDAMENTAL OF DESIGN   Credit-6

Course Objective:
- To familiarize students with the design elements and principles and its application in fashion designing.
- To induce an organized methodology in developing a successful collection / line of garments like color schemes, balance, line, texture etc.

Course Learning Outcome:
After completing this course, the learner will be able to:
- **CO1:** Through this course students will get familiar with basic elements & principles of design that are the essential components for creating new design.
- **CO2:** This course will help to develop the concept of visualization, communication through the medium of flat sketch/drawing based on elements & principles of design.
- **CO3:** Students will able to use different mediums and tools that are required for communicating design idea or blueprint of design, there by encouraging students to think, explore and create.
- **CO4:** Elements of design provide a baseline for designing a unique apparel design in terms of structure, function, and aesthetic.
- **CO5:** Student will learn how to create harmony in design.

Theory Contents

UNIT I
Type of Design- structural and decorative, Elements of Design-Lines, Form, Shape, color, texture, etc., Principles of design-repetition, gradation, radiation, dominance, unity, harmony, contrast, Proportion, balance & rhythm- its importance in designing.

UNIT II
Functions of Lines, Silhouettes, Different types of lines & its characteristics, Use of line in clothing according to body shapes, Optical illusions created by various combinations of lines.

UNIT III
Color theory- Prang color system & Munsell, Color wheel- primary, secondary and tertiary, Color Dimensions-Hue, Value and Chroma, Tint, tone, shade, Color harmony- Related & contrasting color harmonies & its subdivisions, Application of color in clothing, Seasonal colors.

UNIT IV
Texture, Various types of texture, Fashion terminology: - fashion cycle, fad/classic, and factors affecting fashion etc. Apparel categories: - Garment vocabulary, Fashion capitals of the world: - New York, Paris, London, Milan, and Tokyo etc.

Textbook:
1. Sumathy, G. (2002) "Elements of Design and Apparel Design", New Age International Pvt. Ltd.
2. Abling, Bina "Fashion Sketchbook", 4th edition, Fairchild Publications.

Reference Books:
1. Gimsely, M.C. and Harriot, T. "Art and Fashion in Clothing Selection", Nova State University Press, New York.
2. Mckelvey, Kathryn & Janin, "Fashion Design -Process, Innovation & Practice", Blackwell Publishers.

Teaching Learning Process:
- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Market Survey and Field-based learning
- Internet supported projects

Assessment Methods:
As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Keywords
- Fundamental of design
- Line function
- Fabric textures
- Apparel terminology

SFFD151A   PATTERN MAKING-I LAB   Credit-2

Course Objective:
- To develop understanding of pattern making in the fashion industry.
- To acquaint the students with the importance of taking correct body measurements and size charts and to introduce the concept of drafting and paper patterns. So that they are capable to develop Industrial Paper Pattern like professionals.

Course Learning Outcomes:

After completing this course, the learner will be able to:

- **CO1:** Explain the methods of developing paper patterns, develop a basic bodice block and adapt those block to various designs.
- **CO2:** Define the basic pattern making terminologies & how to take body measurements correctly
- **CO3:** Describe the tools used for, drafting, Pattern Making
- **CO4:** Analyse different body types and identify problem areas.
- **CO5:** Compare the different types of pattern layouts, importance of ease and darts in pattern.

List of Experiments

1. Kids wear measurement method, standard body measurement Basic blocks for kids Ø Infants (0-2 years age) Ø Toddlers (2-6 years age) Ø Preteens (6-12 years age) - boys and girls both
2. Kids wear – Infants (0-2-year age)- Pattern development Ø Snow suit with hood Ø Romper, Construction of any one infants' garment
3. Kids wear- Toddlers (2-6-year age) Pattern development for boys' garments - T-shirt with raglan sleeve – shorts/ trouser.
4. Pattern development for girls' garments - Frocks- frock with gather yoke and petals sleeve/bell sleeve, cap sleeve, frock with shoulder string, sleeveless dress with shoulder knot, etc. (anyone) - Skirts- tiered, divided skirt, cascade, etc. Construction of any one garment either for boys or girls
5. Kids wear- Preteens (6-12 year age), Pattern development for boys garments - Knee length pants – T-shirt, Pattern development for girls garments - Empire line dress with flare , Construction of any one garment either for boys or girls

Reference Books:

1. H.J. Armstrong, 2009, Pattern Making for Fashion Design, Harper Collins Publishers Inc. New York.
2. LoriA. Knowles,(09-07-2005)"Pattern Making for Fashion Designers", Fairchild Publishers.
3. Pamela C Stringer, (1992)"Pattern Drafting for Dressmaking", Batsford Ltd
4. Aldrich, W. 2007 Metric Pattern Cutting for Children's Wear and Babywear, Third edition, Blackwell Publishing, Om Books International, Delhi.

Teaching Learning Process:

- PowerPoint Presentations
- Video Presentations
- Field-based learning
- Experiential learning through demonstrations

Assessment Methods: For each course the assessment is as follows:

For practical (maximum marks 100):

1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words

- Pattern making
- Flat pattern making
- Drafting

SFEL145A   COMMUNICATION SKILLS   Credit-2

Course Level Learning Outcomes

1. Understand the basics of Grammar to improve written and oral communication skills.
2. Understand the correct form of English with proficiency
3. Improve student's personality and enhance their self-confidence.
4. Improve professional communication.
5. Enhance academic writing skills.

Course Content

UNIT I

Introduction to Communication: Meaning, Forms & Types of Communication; Process of Communication; Principles of Effective Communication/7Cs, Barriers in Communication.

UNIT II

Academic Writing: Précis (Summary – Abstract – Synopsis – Paraphrase – Précis: Methods), Letter & Résumé (Letter Structure & Elements – Types of letter: Application & Cover - Acknowledgement – Recommendation – Appreciation – Acceptance – Apology – Complaint –Inquiry), formal emails.

UNIT III

Building Vocabulary: Word Formation (by adding suffixes and prefixes); Common Errors; Words Often Confused; One word substitution, Homonyms and Homophones; Antonyms &Synonyms, Phrasal Verbs, Idioms & Proverbs (25 each); Commonly used foreign words(15 in number).

UNIT IV

Soft Skills in a Virtual Age: Virtual Media and Etiquettes & Manners; Attitude; Public Speaking; Body Language: Posture, Gesture, Eye Contact, Facial Expressions; Presentation Skills/ Techniques.

TEXTBOOK:

Kumar, Sanjay and Pushplata. *Communication Skills*. Oxford University Press, 2015.

REFERENCE BOOKS / SITES:

1. Mitra, Barun K. *Personality Development and Soft Skills*. Oxford University Press, 2012.
2. Tickoo, M.L., A. E. Subramanian and P.R. Subramaniam . *Intermediate Grammar, Usage and Composition.* Orient Blackswan, 1976.
3. Bhaskar, W.W.S., AND Prabhu, NS., " English Through Reading", Publisher: MacMillan, 1978
4. Business Correspondence and Report Writing" -Sharma, R.C. and Mohan K. Publisher: Tata Mc Graw Hill 1994
5. Communications in Tourism & Hospitality- Lynn Van Der Wagen, Publisher: Hospitality Press
6. Business Communication- K.K.Sinha
7. Essentials of Business Communication By Marey Ellen Guffey, Publisher: Thompson Press
8. How to win Friends and Influence People By Dale Carnegie, Publisher: Pocket Books
9. Basic Business Communication By Lesikar & Flatley, Publisher Tata Mc Graw Hills
10. Body Language By Allan Pease, Publisher Sheldon Press

SFCH125A   ENVIRONMENTAL STUDIES   Credit- 3

Course Objectives: This course in environmental studies will develop the
- Basic understanding about the concept related to the environment such as eco system and biodiversity.
- Understanding pollution and its control.
- Insight into the various concerns regarding environment such as population and social issues.

UNIT I

Introduction of Environmental Studies: Multidisciplinary nature of environmental studies; Scope and importance; Concept of sustainability and sustainable development.

Natural Resources: Renewable and Non-renewable Resources

Land resources: land use change; Land degradation, soil erosion and desertification.

Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity, and tribal populations.

Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).

Energy resources: Renewable and non- renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

UNIT II

Ecosystems: Definition and Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession.

Case studies of the following ecosystems:
a) Forest ecosystem
b) Grassland ecosystem
c) Desert ecosystem
d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Biological Diversity: Levels of biological diversity; genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots ; India as a mega-biodiversity nation; Endangered and endemic species of India; Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity; Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

UNIT III

Environmental Pollution: Types, causes, effects and controls; Air, water, soil and noise pollution. Nuclear hazards and human health risks; Solid waste management: Control measures of urban and industrial waste; Pollution case studies.

Environmental Policies and practices: Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture.

Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context. International agreements: Montreal & Koyoto protocol and convention on biological diversity. Nature reserves, tribal population and rights, human wild life conflicts in Indian context.

UNIT IV

Human Communities and the Environment: Human population growth: Impacts on environment, human health and welfare; Resettlement and rehabilitation of project affected persons; case studies; Disaster management: floods, earthquake, cyclones and landslides; Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan; Environmental ethics: Role of Indian and other religions and cultures in environmental conservation; Environmental communication and public awareness, case studies (e.g., CNG vehicles in Delhi).

Field work:
- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems-pond, river, Delhi Ridge, etc.

TEXTBOOK:
1. Erach Bharucha, Textbook of Environmental Studies, Universities Press (P) Ltd., Hyderabad, India.

REFERENCE BOOKS:
1. A.K. De, Environmental Chemistry, New Age International, New Delhi.
2. P. H. Raven, D. M. Hassenzahl & L. R. Berg, Environment, John Wiley & Sons, New Delhi.
3. J. S. Singh, S. P. Singh and S. R. Gupta, Ecology, Environmental Science and Conservation, S. Chand Publication, New Delhi.
4. AnubhaKaushik and C. P. Kaushik, Environmental Studies, New Age International, New Delhi.

SFDM301A   DISASTER MANAGEMENT   Credit-3

Course Objective:
- The objective of the course is to create awareness about various types of disasters and to educate the learners about basic disaster management strategies. The course examines disaster profile of our country and illustrates the role played by various governmental and non- governmental organizations in its effective management. It also acquaints learners with the existing legal framework for disaster management.

Learning Outcome: The course will -
1. Provide students an exposure to disasters, their significance and types.
2. Ensure that the students begin to understand the relationship between vulnerability, disasters, disaster prevention and risk reduction.
3. Provide the students a preliminary understanding of approaches of Disaster Risk Reduction (DRR)
4. Develop rudimentary ability to respond to their surroundings with potential disaster response in areas where they live, with due sensitivity.

UNIT I Introduction to Disasters: Concept and definitions- Disaster, Hazard, vulnerability, resilience, risks.
Different Types of Disaster: Causes, effects and practical examples for all disasters.
- Natural Disaster: such as Flood, Cyclone, Earthquakes, Landslides etc
- Man-made Disaster: such as Fire, Industrial Pollution, Nuclear Disaster, Biological Disasters, Accidents (Air, Sea, Rail & Road), Structural failures (Building and Bridge), War & Terrorism etc.

UNIT- II Disaster Preparedness and Response Preparedness
- Disaster Preparedness: Concept and Nature
- Disaster Preparedness Plan
- Prediction, Early Warnings and Safety Measures of Disaster.
- Role of Information, Education, Communication, and Training, Role of Government, International and NGO Bodies.
- Role of IT in Disaster Preparedness
- Role of Engineers on Disaster Management.
- Relief and Recovery
- Medical Health Response to Different Disasters

UNIT III Rehabilitation, Reconstruction and Recovery
- Reconstruction and Rehabilitation as a Means of Development.
- Damage Assessment
- Post Disaster effects and Remedial Measures.
- Creation of Long-term Job Opportunities and Livelihood Options,
- Disaster Resistant House Construction
- Sanitation and Hygiene
- Education and Awareness,
- Dealing with Victims' Psychology,
- Long-term Counter Disaster Planning
- Role of Educational Institute.

UNIT IV Disaster Management in India
- **Disaster Management Act, 2005:**
  Disaster management framework in India before and after Disaster Management Act, 2005, National Level Nodal Agencies, National Disaster Management Authority

- **Liability for Mass Disaster**
- Statutory liability
- Contractual liability
- Tortious liability
- Criminal liability
- Measure of damages
- **Epidemics Diseases Act, 1897: Main provisions, loopholes.**
- **Project Work**: The project/ field work is meant for students to understand vulnerabilities and to work on reducing disaster risks and to build a culture of safety. Projects must be conceived based on the geographic location and hazard profile of the region where the institute is located.

Reference Books:

- Government of India, Department of Environment, Management of Hazardous Substances Control
- Act and Structure and Functions of Authority Created Thereunder.
- Indian Chemical Manufacturers' Association & Loss Prevention Society of India, Proceedings of the National Seminar on Safety in Road Transportation of Hazardous Materials: (1986).
- Author Title Publication Dr. Mrinalini Pandey Disaster Management Wiley India Pvt. Ltd.
- Tushar Bhattacharya Disaster Science and Management McGraw Hill Education (India) Pvt. Ltd.
- Jagbir Singh Disaster Management: Future Challenges and Opportunities K W Publishers Pvt. Ltd.
- J. P. Singhal Disaster Management Laxmi Publications.
- Shailesh Shukla, Shamna Hussain Biodiversity, Environment and Disaster Management Unique Publications
- C. K. Rajan, Navale Pandharinath Earth and Atmospheric Disaster Management: Nature and Manmade B S Publication
- Indian law Institute (Upendra Baxi and Thomas Paul (ed.), Mass Disasters and Multinational Liability: The Bhopal Case (1986)
- Indian Law Institute, Upendra Baxi (ed.), Environment Protection Act: An Agenda for Implementation (1987)
- Asian Regional Exchange for Prof. Baxi., Nothing to Lose But our Lives: Empowerment to Oppose
- Industrial Hazards in a Transnational world (1989)
- Gurudip Singh, Environmental Law: International and National Perspectives (1995), Lawman (India) Pvt. Ltd.
- Leela Krishnan, P, The Environmental Law in India, Chapters VIII, IX and X (1999), Butterworths, New Delhi.

GENERIC ELECTIVE
SEMESTER-I

SFFD105A   FASHION DESIGN & DEVELOPMENT   Credit-6

Course Objectives:

- To create an understanding of the concepts and terminologies related to fashion design as well as the theories and functions of clothing, and the elements and principles of design.

- To impart the knowledge about Indian and international fashion industry as well as the roles and responsibilities of designers and the process of fashion forecasting.

Course Learning Outcomes:

After completing this course, the learner will be able to:

CO1: Learn basic fashion related terminologies like fashion cycle curve, fashion consumer.

CO2: To understand fashion categories in terms of style, size and price

CO3: To Illustrate and explain a fashion cycle curve.

CO4: Fashion capitals of the world, classify the various sources of design inspirations

CO5: Style reading and analyze the garments in terms of elements and principles of design.

Theory Contents

Unit I:

Fashion terms: Fashion, Fad, Classic, Trend, Haute-couture, Prêt-a-porter, Knockoff, accessories, toile, atelier, boutique, be spoke.

Unit II:

Introduction of Principal & elements of fashion design. Role of designer in fashion studio. Fashion centres and their leading designers and brands: Paris, Milan, London, Tokyo, New York, India.

Unit III:

Sources of design inspiration- printed sources, historic/traditional costumes, media, travel, fabrics, awareness. Types of prints & design in textile.

UNIT IV

Fashion cycle, Consumer identification with fashion life cycle – fashion leaders/ followers/ victims. Fashion categories in terms of style, size, price- Women's wear, Men's wear & kids wear.

List of experiments:

- Analysis of elements of design
- Analysis of principles of design
- Case study of any one Fashion designer

Textbooks:

1. Fringes G.S. (1999). Fashion from Concept to Consumer (6th edition) New Jersey: Prentice Hall.
2. Marshall S G, et al. (2009). Individuality in Clothing & Personal Appearance (6th Edition). USA: Pearson Education.
3. Stamper A.A. Et al., (1991). Evaluating Apparel Quality (2nd Edition). New York: Fairchild Publications.

Reference Books:
1. Brown P., Rice J. (1998). Ready to Wear Apparel Analysis. New Jersey: Prentice Hall. Jarnow, J. Dickerson G. (1987). Inside the Fashion Business. New Jersey: Prentice Hall.
2. Mc. Kelvey, K., Muslow, J. (2008). Fashion Forecasting. New Jersey: Wiley Blackwell
3. Tate, S.L. and Edwards, M.S. (2006). The Complete Book of Fashion Design. New York:Pearson Education.
4. Verma G. (2018). Fashion Technology. New Delhi: Asian Publishers.

Assessment Methods:
As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Teaching Learning Process:
- Lectures
- Classroom Discussions
- PowerPoint Presentations
- Video Presentations
- Illustration workshop
- Case study
- Survey and Field-based learning

Key Words:
- Apparel Design and Construction
- Fashion
- Design Development

SFFD107A   FUNDAMENTAL OF NEEDLE & DYE CRAFT   Credit-6

Course Objective:
- To create an understanding of the various traditional Indian needle & dye crafts. Be able to develop skills to enhance the aesthetic value of any fabric through ornamentation. Enhance the creative skills in developing new concepts through visualization and ideation to replicate an inspiration.

Course Learning Outcomes:

After completing this course, the learner will be able to:

- **CO1:** Students will get complete knowledge of needle & dye crafts of India.
- **CO2:** Acquire different methods of surface ornamentation with needle & dye.
- **CO3:** Identify various types of dyes used for dyeing and printing of fabrics.
- **CO4:** Able to develop new motifs design based on traditional needle & dye craft.
- **CO5:** Understand the scope for design intervention and innovation in using these techniques for creative and contemporary product development

List of Experiments

1. Basic embroidery stitch like- running stitch, wipped running stitch, chain stitch, magic chain stitch, leader chain stitch, wipped chain stitch, blanket stitch, fly & father stitch, satin stitch, rice stitch, bullion stitch, French not,
2. Prepare sample for each basic stitch.
3. Needle Craft – Thread Embroidery, Applique, Quilting, Crochet, Bead Embroidery, Pipes Embroidery, Prepare sample for each needle craft.
4. Zari And Zardosi, Gota Patti, Work With Gold, Silver and Copper Threads. Prepare sample for each needle craft.
5. Kashida Kari, Chamba Rumal, Pipli, Tharu, Khatwa, Knitting, Macrame etc. Prepare sample for each needle craft.
6. Classification of Dyes - Natural dyes and Synthetic dyes
7. Different fabrics Dyes: Direct Dyes, Reactive Dyes, Acid Dyes, Vat Dyes, Prepare sample based on natural & synthetic dye craft.

Reference Books:

1. Sally Harding(2010)The Needlecraft Book
2. Singer Margo, 2007, Textile Surface Decoration- Silk & Velvet, A & B Black Ltd.
3. Pepin Press, (1999), Indian Textile Prints with CD , PAP/Cdr edition.

Teaching Learning Process

- PowerPoint Presentations
- Video Presentations
- Experiential learning through demonstrations and workshop
- Market Survey and Field-based learning

Assessment Methods: For each course the assessment is as follows:

For practical (maximum marks 100):

1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course.

Key words
- Needle craft
- Dyeing craft
- Motifs development
- Textile development

SEMESTER- II

SFFD102A   GARMENT MANUFACTURING TECHNOLOGY   Credit -4

Course Objectives:
- This course prepares the students to acquire the knowledge and familiarize them with sewing machine & its part. To develop an understanding about the selection of the right machinery for production of garments.

Course Learning Outcomes:

After completing this course, the learner will be able to:
- **CO1:** To understand the workflow of garment production unit.
- **CO2:** To understand the different parts of the sewing machine and their functions.
- **CO3:** Identify the causes of working defects of sewing machines and solution.
- **CO4:** Make different types of temporary, permanent, and decorative stitches.
- **CO5:** Prepare different types of seams.

Theory Contents

UNIT I

Garment Industry, Overview of the garment industry, Main sectors of the garment industry, Standards and specifications, Production capacity, Time and motion study- Introduction, effect of time and motion study on productivity in garment sector.

UNIT II

Pre-Production Processes, recording measurements, explain about Pattern making, Sampling, Fabric development and sourcing, Production planning & control, Preparation of specification sheet/Tech-pack.

UNIT III

In-Production processes, Machines, Equipment and Work-aids , Marker-making-planning, production, efficiency, methods of making, Spreading of fabric- requirements, methods, nature of fabric packages, Cutting – objective, methods and tools, Preparation before cutting- fusing, ticketing and bundling- purposes and types Fusing- advantages, requirements, processes, equipment, methods and quality control, Stitch types-suitability and usage, Seam types-suitability and usage, Types of sewing machines- Basic lock stitch, chain stitch and over

lock machines (Parts, function and sewing defects and Solution) Special purpose machines-blind stitch, bar tack, button sewing and button holes,

Types of sewing Needles, Types of sewing Threads, Feed system in sewing machines, Feed Dogs, Machine beds, Machine tables, Work chairs, Bundle clamps, Stackers, Various machine attachments, Handling various specialty fabrics.

UNIT IV

Overall production processes, Garment finishing-Thread trimming, stain removal, cleaning, dry-cleaning, pressing, checking, folding and packing, shipment inspection, Warehousing-handling equipment, storage equipment, packaging equipment, transportation issues

List of Experiments

- Decorative stitches – stem, chain, herringbone, running, lazy-daisy, satin, French knot. ·Temporary stitches - even, uneven, pin, machine and diagonal basting, thread mark. Bullion stitch, buttonhole. machine on paper and fabric on straight lines, curved lines and corners. overcast, over-locked, piped finish.
- Fasteners: button, buttonholes, press buttons, hook-n-eye.
- Introduction to a sewing machine with a practice of learning the running of sewing
- Necklines and their finishing: bias binding, bias facing, shaped facing with fusing.
- Permanent stitches - hemming, blind hemming, back stitch, fine stitch.
- Plain seam and seam finishes - Pinking, Turned and Stitched, Edge stitched, hand
- Seams - French seam, run-n-fell seam, lapped seam, top stitching, piped seam.

Textbook:

1. Glock & Kunz, (July 8, 2004)"Apparel manufacturing”, Pearson Prentice Hall.

Reference Books:

1. "Reader's Digest" Association (9 October 1978) Complete Guide to Sewing.
2. Alison Smith, 02 Feb 2009 “The Sewing Book”, Dorling Kindersley.
3. Harold Carr and Barbara Latham, (2008) “Technology of Clothing Manufacture”, Blackwell Publishing Asia Pty Ltd

Teaching Learning Process:

- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Experimental learning through demonstrations and workshop

Assessment Methods: For each course the assessment is as follows: For practical (maximum marks 100):

1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. Attendance- 10 marks
4. End Term Examination– 30 Marks

Result is declared in terms of letter grade and grade points for each course

Key Words:

- Apparel Design and Construction
- Design Development

SFFD104A   FABRIC MANUFACTURING   Credit-4

Course Objectives:
- To impart knowledge about various fabric construction techniques.
- To familiarize the fabric properties and various fabric finishes to enable better design skills.
- To aid the fabric choice as per the design, budget and client.

Course Learning Outcomes:
After completing this Course, the learner will able to:
- **CO1:** Identify different parts of a loom and state their functions.
- **CO2:** Explain the general properties of woven & knitted fabrics.
- **CO3:** Compare and identify the different types of simple & fancy weaves.
- **CO4:** Describe the basic & special fabric finishes.
- **CO5:** Explain the concept of terminology of weave such as EPI, PPI and GSM.

Theory Contents

UNIT I
Introduction to methods of fabric construction: weaving, knitting, felting, non-woven, laces, braids and nets -their properties.

UNIT II
Weaving: Basic parts of a loom and their functions. Overview of conventional & non-conventional looms and their working. Knitting: General properties of knitted fabrics, basic weft and warp knitted structure

UNIT III

Representation of weaves structures. Basic Weaves and variation - Plain, Twill, Satin. Fancy Weaves – Dobby, Jacquard, Pile, Leno and surface figure. Characteristics & Properties of various weaves.

UNIT IV

Terminology on weave: like - EPI, PPI, and GSM/oz calculation. Blends: Reasons for blending properties, common blends available in Market. Common fabric Defects. Textile finishes-Introduction, significance and classifications.

Textbooks:
1. N. Gokarneshan , "Fabric Structure & Design", New Age International Limited Publishers

Reference Books:
1. Watson's Textile Design & Colour by Z.J. Grosicki published by Woodhead Publishing Limited
2. David J Spencer , "Knitting Technology", PERGAMON Press.
3. Stephen J. Russell , "Handbook of Non Wovens", CRC Press,2007
4. Hannelore Elberle,"Clothing Technology",Verlag Europa Lehrmitte

5. B. K. Behera and P. K. Hari , "Woven textile structure – theory and applications", Woodhead, UK, 2009

Teaching Learning Process:
- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Experimental learning through demonstrations and workshop
- Market Survey and Field-based learning
- Visit to Weaving centers.

Assessment Methods:

As per University rules For each course the assessment is as follows:

For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Key Words:
- Fabric Constriction
- Fundamental of weave
- Weave design
- Textile finishes

SFFD150A   FASHION ART ILLUSTRATION LAB   Credit-2

Course Objectives:
- To prepare professional fashion illustrator who are able to sketch any kind of illustration with every kind of colour medium. For this we emphasis on the understanding of basic proportions of the fashion figure through the analysis of photographs.

Course Learning Outcome:
After completing this course, the learner will be able to:
- **CO1:** To develop rendering skills with different colours to illustrate various fabric textures.
- **CO2:** To develop the skills of drawing garments and garment details.
- **CO3:** To understand the illustration of garments and accessories on fashion figures.
- **CO4:** Through this course student will know how to create clothing designs by hand.
- **CO5:** Fashion sketching plays a major role in designing to preview and visualize designer's thoughts and make decisions before going to actual clothing to reduce any wastage.

List of Experiments
1. Draw fashion poses proportionally: Draw female fashion body poses from the textbook and magazines, 1 front view pose, 1 back view pose, and 1 side view pose. Relaxed fashion poses.
2. Demonstrate illustration skills for rendering of garment details, fabric type, and fit.
3. Fashion head illustration: Draw 3 female fashion heads with hair. Render with markers, color pencils, pastels, or paint.
4. Hands and shoes illustration: Draw 5 hands from different angles. Render with marker, Design 5 pair shoes with the foot, Render with marker.
5. Clothing details (elements of fashion including fashion accessories)- Drawing various Fashion elements to form a garment such as, types of sleeves, necklines, pockets, cuffs, collars, yokes, waist bands, bows & ties, frills & flounces etc.
6. Draw 2 fashion poses. Design outfits combining bulky sweater knits, herringbone tweed wool pants or skirts, and leather coat. Render both outfits in compatible colors.

Reference Books:
1. Hagen, K. (2005). "Fashion Illustration for Designers" NJ: Pearson Prentice Hall.
2. Fernandez, Angel and Roig, Gabriel Martin (2009) "Drawing for Fashion Designers", Batsford.
3. Nunnelly, Carol A. (2009) "Fashion Illustration School, A Complete Handbook for Aspiring Designers and Illustrators", Thames & Hudson.

Teaching Learning Process:
- Lectures
- Class discussions
- Video Presentations
- Experiential learning through demonstrations

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words
- Brainstorm idea
- Fabric detail
- Illustration skills

SFFD152A   FASHION DESIGN SOFTWARE -I LAB   Credit-2

Course Objective:
- To familiarize students with Photoshop which give a fundamental knowledge about graphical logics in computer such as photo editing, vector images, portfolio setting, applied art and advertisement. Photoshop Basics will help in improving or editing photos and preparing images for design projects.

Course Learning Outcome:
After completing this course, the learner will be able to:
- **CO1:** Photoshop helps to keep the creative world moving with intuitive tools and easy to use templates.
- **CO2:** Student will acquire knowledge of various tools like adjust, crop, remove objects, retouch and repair old photos.
- **CO3:** Through this course student will play with color, effects and more to create boards, artwork with the help of CAD.

- **CO4:** Students will enable to generate unique designs, pattern.
- **CO5:** Student will familiarize with photo editing, bitmap images, portfolio setting.

List of Experiments

1. Learning the Internet-Internet & its scope, connecting to internet, Opening an Email account, sending & receiving Emails.
2. Draw and manipulate custom raster/vector shapes using the Pen tool and shape tools.
3. Sharpen, blur, and vignette images using customizable and editable Smart Filters.
4. Apply professional-quality typography in Photoshop, considering leading, kerning, tracking, baseline shift, and ligatures.
5. Handle type creatively by applying textures to text, pushing photographs through text and other shapes, and hiding portions of text.
6. Combine multiple photographs using gradient masks, blending sliders, and displacement maps.
7. Utilize blend modes, gradients, and the Refine Edge dialog to combine images seamlessly.
8. Retouch and alter photographs non-destructively, using dodging and burning, adjustment layers.
9. Create attractive gray scale, partial grayscale, and duotone images.
10. Use Swatches panel, and Color Libraries to effectively select and manage colour schemes.
11. Create custom brushes, use the Mixer Brush for freehand painting in Photoshop, and turn images into paintings.
12. Introduction of creating banner, invite and artwork for specific occasions.
13. Introduction of creating print artwork for textile like block print, tie-dye, stripes, checks etc.

Additional references
1. Fulkner, Andrew & Chaez, Conrad. (2015) "Classroom in a book"
2. https://helpx.adobe.com/in/photoshop/how-to/ps-basics-fundamentals.html
3. https://we.graphics/blog/photoshop-quick-tip-turn-any-photo-in-a-screen-printed-graphic/
4. https://www.lifewire.com/use-a-pattern-fill-in-photoshop-1700226

Teaching Learning Process:
- Class discussions
- Video Presentations
- Demonstrations and workshop
- Design-analysis based assignments

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Keywords
- Computer Aided Design
- Photoshop
- Signature style.

SFFD154A   **PATTERN MAKING -II LAB**   **Credit-2**

Course Objective:
- To acquire the knowledge of Human body structure and measurements, to learn pattern making Principals like dart manipulation and able to draft adult bodice block as per standard size.

Course Learning Outcomes:
After completing this course, the learner will be able to:
- **CO1:** Through this course students will able to develop adult bodice block / female basic bodice block.
- **CO2:** Importance of dart manipulation in garments. Learn various kind of collars, sleeves, skirts.
- **CO3:** Understand the concept of fit and balance in women's wear.
- **CO4:** They will learn how to manipulate basic patterns for creating new designs.
- **CO5:** Students learn technical overview of fit related problems and find out there technical solution.

List of Experiments

1. Introduction to Human Anatomy
2. To study the individual measurement of dress form
3. Introduction to Pattern Making Principles
4. Specification and terminology of Adult Bodice Block size # 8
5. Dart Manipulation-Slash and spread technique, Pivot transfer technique, Single dart series, Double dart series.
6. Princess line foundation- classic princess styleline , armhole princess styleline, panel styleline
7. Designing with Darts: Tuck - Darts, Pleats, Flares, and Gathers

8. Sleeves (Set –in)-Plain, Puff & derivations, Cap, Petal, Bishop, leg-o mutton, Lantern etc.
9. Collars -Nonconvertible, flat roll, Partial roll, Full roll, Collars with deep open, necklines. Convertible, Mandarin, Roll, Collars with stand.
10. Skirts -Basic single & double dart skirt, A- line skirt, Paneled skirt, gored skirt, Flounce skirt, Wrap around skirt, Circular skirt, Circular with uneven, hemline skirt

REFERENCE BOOKS:

1. Helen Joseph Armstrong, 2009"Patternmaking for Fashion Design", Pearson, Fifth edition.
2. Pamela C Stringer, (1992) " Pattern Drafting for Dressmaking", Published by Bats ford Ltd
3. https://www.amazon.com/Pattern-Cutting-Aldrich-Winifred-Hardcover/dp/B011825QFW/ref=dp_ob_image_bkWinifred Aldrich, (2015)Metric Pattern Cutting for Women's Wear 6th edition

Teaching Learning Process:
- Demonstrating
- Classroom Action Research
- PPT

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words

- Pattern making
- Flat pattern making
- Drafting
- Bodice block

SFFD156 A   FASHION MODEL DRAWING LAB   Credit-2

Course Objective:
- To understand the importance of anatomical studies as the basis of fashion model drawing & to prepare professional in terms of fashion model drawing.

Course Learning Outcome:
After completing this course, the learner will be able to:
- **CO1:** Understand the various shading techniques to represent the highlights & shadow.
- **CO2:** The study of this course will help students to develop the concept of visualization and communication through the medium of flat sketch/drawing.
- **CO3:** Acquire the skills of stick figures to communicate various body pose.
- **CO4:** Students will able to use different mediums and tools that are required for communicating design idea, there by encouraging students to think, explore and create.
- **CO5:** Students will able to develop flash figure with the help of block figure.

List of Experiments

1. Basic line & shading exercise- Lines & Shading exercises using various pencil & color mediums, Such as, Grade pencils, Color pencils, Poster color/ watercolor, Charcoal.
2. Stick figures & different body actions. Developing blocks for block figure.
3. 8 head,10 head, 12 head figures, the fashion face, arms, legs, Hands and feet. Poses: Front, ¾, side & back block figure.
4. Flashing figure - Front, ¾, side & back.
5. Illustrating male figure and children, Figure analysis, body types, designing for diverse body types
6. Face block. Fashion frontal face-eyes, ears, nose, mouth & head.
7. Fashion Figure, study of various proportions, The balance line in drawing figures, gestures and movements.

Reference Books:
1. Hagen, K. (2005). "Fashion Illustration for Designers" NJ: Pearson Prentice Hall.
2. Fernandez, Angel and Roig, Gabriel Martin (2009) "Drawing for Fashion Designers", Batsford.
3. Nunnelly, Carol A. (2009) "Fashion Illustration School, A Complete Handbook for Aspiring Designers and Illustrators", Thames & Hudson.

Teaching Learning Process:
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Field-based learning
- Experiential learning through demonstrations

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Keywords
- Fashion drawing
- Line drawing.
- Block drawing.

SEMESTER -III

SFFD201A   TEXTILE CHEMICAL PROCESSING   Credit -4

Course Objectives:
- To provide comprehensive knowledge about the co ncepts of dyeing and printing of textiles.
- To create an understanding of the various traditional Indian dyed and printed textile.

Course Learning Outcomes:
After completing this Course, the learner will able to:
CO1: Describe the steps involved in preparing fabrics for dyeing and printing.
CO2: State the difference between natural and synthetic dyes.
CO3: Explain the importance of testing color fastness of dyes.
CO4: Differentiate between and explain the styles and methods of printing.
CO5: Make use of tie and dye, Block printing and batik for dyeing and printing.

Theory Contents

UNIT I
Introduction and flow chart of Pretreatment Wet Processing: singeing, resizing, scouring, bleaching, mercerizing, Overview of wet processes machineries.

UNIT II

Introduction to natural and Synthetic dyes. Dyeing of cotton material with direct dye, vat dye, Sulphur dye, azonic dye. Dyeing of silk/ wool material with acid dye, basic dye. Dyeing of synthetic textile material. Dyeing machines- Fiber, Yarn, Fabric. Color fastness: Factor effecting colour fastness - Wash, Rubbing, Light fastness and their evaluation.

UNIT III

Dyeing vs. Printing. Concept of Printing, Styles of printing: Direct, Resist, Discharge-tie and Dye, Batik, Mud Resist. Introduction to printing techniques and methods.

UNIT IV

Methods of printing – Block, Roller, Screen, Rotary screen, Heat Transfer, Digital, Flock, Common dyeing, and printing defects.

Textbook:
1. Sara J.Kadolph ,"TEXTILES ",Pearson.

Reference Books:
1. Howard C Needles ,"Textile Fibres ,Dyes ,Finishes& Process",Noyes Publications.
2. E.P.G Gohl & L.D.Vilensky ,"Textile Science",CBS Publishers & Distributors

Teaching Learning Process:
- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Experimental learning through demonstrations and workshop
- Market Survey and Field-based learning
- Visit to dyeing & printing centers

Assessment Methods:
As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks
Result is declared in terms of letter grade and grade points for each course

Key Words:
- Textile Wet Processes
- Dyeing
- Printing

SFFD203A OVERVIEW OF FASHION INDUSTRY Credit-4

Course Objective:

- To provide a wide-range exposure of the global fashion industry, structure and functioning of apparel industry. To enable students to improve their understanding of the apparel handling in the industry as per the current practices prevalent by apparel analysis.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: To aware students with fashion garment vocabulary & fashion terms: fashion, fad, classic etc.
CO2: To learn the types & structure of the global & Indian fashion industry.
CO3: Identify the fashion capitals in the world.
CO4. To learn fashion adoption theories, fashion life cycle & workflow in a garment manufacturing unit
CO5: To understand the fashion forecasting, importance, process & identify the role of forecaster in apparel design.

Theory Contents

UNIT I
Fashion terms: Fashion, Fad, Classic, Haute-couture, Prêt-a-porter, Knockoff, Accessory, Toile, Atelier, Boutique, Avant Garde, Empire line, Season, Garment Vocabulary- T-shirt, trouser jodpuri pants, bell bottom, hauler neck, racer back, kimono, Reglan sleeve etc.
Overview of global & Indian fashion Industry types, structure, impact on economy. Major fashion centers of the world and their leading designers and brands- Paris, Milan,Tokyo, New York, London, India.

UNIT II
Forecasting: Purpose of forecasting trends, how to use forecasting service, Factors influencing fashion trends. Fashion cycle, Consumer identification with fashion life cycle – fashion leaders, fashion followers, Fashion victims, Theories of Fashion adoption – trickle down, trickle up and trickle across, Factors favoring and retarding fashion, Men's, Women's & kids fashion categories in terms of style, size, price, Fashion promotion and communication channels Trade fairs, Fashion shows.

UNIT III
Technical drawing in apparel, importance of technical drawing in fashion industry, how to prepare technical drawing, sections of technical pack- Garment Flats, Specifications, Spec sheet, Study of Spec sheet. How to dissemble Garments for Apparel Study, Breakdown of components of a Garment Parameters for apparels evaluation – Top+ Bottoms

UNIT IV

Organization structure of Buying Agency & Manufacturing units. Workflow of a Garment Manufacturing unit, departments and their functions. Merchandiser, types of merchandiser, Role of apparel merchandiser. Role of supply chain in garment industry, Tools & strategies used in fashion industry.

Textbooks:

1. H.L (1965.) "The theory of Fashion ", John Wiley & Sons, Brockman,
2. Sr. Prof. BanhiJha, Mr. Prem Kumar Gera (2014) "Overview of Fashion Industry-I"first edition, published by: The Secretary, Central Board of Secondary Education.
3. Frings G. (1996). Fashion-From Concept to Consumer (5th Edition). USA: Prentice Hall Publications
4. Marshall S G, et al. (2009). Individuality in Clothing & Personal Appearance (6th Edition).USA: Pearson Education

Reference Books:

1. Jarnow J, Judelle B. (1987) Inside Fashion Business. New Jersey: Merill Prentice Hall.
2. Shorie G.P. (2007) Vastra Vigyan KeMool Siddhant. Agra: Vinod Pustak Mandir.
3. Stone E. (2008) The Dynamics of Fashion. New York: Fairchild Publication.
4. Verma P. (2003) Vastra Vigyan Evam Paridhan. Bhopal: Hindi Granth Academy.
5. Swinney, John B (1942) "Merchandising of Fashion ", Ronald press,
6. Solomon, Michael R (2012), "Consumer Behaviour in Fashion", Pearson
7. Dr.JanardhaJha (2006) Apparel Merchandisng, Manipal University

Teaching Learning Process:

- Lectures
- Class Discussions
- PowerPoint Presentations
- Video Presentations

Assessment Methods:

As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Key Words:

- Global Fashion Industry
- Fashion Cycle
- Fashion Consumer
- Fashion Theory

SFFD251A   SKETCHING-I LAB   Credit-2

Course Objective:
- Student will gain the knowledge of drawing the technicalities & details of various Fashion elements with the correct Terminologies. This subject will also provide the skills to draw different hair styles with a practice of Facial details like eyes, lips, ears etc.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: Students are able to develop their own stylized fashion figure.
CO2: To understand the look of the garment and style features.
CO3: To be able to create variations in terms of colour combinations and colour ways
CO4: To be able to highlight the garment details & presentation techniques.
CO5: To be able to prepare flat sketches of the garments for effective use for product development.

List of Experiments

1. Stylized Fashion figure of Male, Female fashion figure, Different views such as Front, Back, Side & 3/4th. Drawing arms, legs, feet, palm, & different positions.
2. Face details with hair styles- Drawing different face positions such 3/4th, front, side, facial details like eyes, nose and lips.
3. Free hand figure drawing techniques, Analysing stylization- Exaggeration, Developing own style with line drawing and colour.
4. Accessorizing croqui: Headgears. Footwear. Hand bags. Belts. Bows and ties. Eyewear. Jewelry. Gloves & Scarves.
5. Presentation Techniques - Layout techniques, Story board techniques
6. Flat drawing, Spec Sheets, cost sheet.
7. Women's & men's wear collection: Conceptualization, Design Development sheets. Occasions – wedding, formal meeting. Lifestyle - urban, rural, tribal, hippy, retro etc. Seasons - winter, summer, rainy, spring etc.
8. Women's & men's wear collection: Conceptualization, Design Development sheets. Occasions – holidays, party. Lifestyle - urban, rural, tribal, hippy, retro etc. Seasons - winter, summer, rainy, spring etc.

REFERENCE BOOKS:

1. Bina Abling , "Fashion Sketchbook",4th edition , Fairchild Publications, Inc. New York Publication Year – 2004.
2. Figure drawing Elisabetta druid & Tizianapaci Pepin press, 2005
3. Mode (Fashion, Drawing & design) Hannelore Eberle & Auflage publication, Hannes Dollel 2010
4. Illustrating Fashion Concept to creation Steven Stipelman 2 nd edition , Fairchild Publications, Inc. New York Publication Year – 2005

Teaching Learning Process:

- Lab
- Class Discussions
- PowerPoint Presentations
- Video Presentations

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
5. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
6. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
7. End Term Examination– 30 Marks
8. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words:
- Sketching
- Stylized drawing
- Fashion figure analysis

SFFD253A   FASHION DESIGN SOFTWARE -II LAB Credit-2

Course Objective:
- Students will acquire the knowledge of design software like coral draw & Photoshop. Student will learn how to start improving & developing vector images for design projects. After completion students will able to develop their own print designs.

Course Learning Outcome:

After completing this course, the learner will be able to:

CO1: Students will acquire a sound knowledge of various design software's like Corel draw and Photoshop.

CO2: Conceptualize, design, and create graphics, prints, patterns, textures etc.

CO3: Through this course student will play with color, effects and more to create concept boards- mood board, color board etc. & artwork with the help of coral draw.

CO4: Students will enable to generate / manipulate the pattern to achieve desired style or look according to their project work.

CO5: Photoshop helps students in portfolio presentation & portfolio editing work.

List of Experiments

1. Draw and manipulate custom raster/vector shapes using the Pen tool and shape tools.
2. Create precise selections in low-contrast images using vector masks and paths.
3. Use smart Objects in Photoshop to non-destructively edit, link, update images.
4. Sharpen, blur, and vignette images using customizable and editable Smart Filters.
5. Apply professional-quality typography in Photoshop, considering leading, kerning, tracking, baseline shift, and ligatures.
6. Handle type creatively by applying textures to text, pushing photographs through text and other shapes, and hiding portions of text.
7. Create attractive grey scale, partial grayscale, and duotone images.
8. Use Swatches panel, and Colour Libraries to effectively select and manage colour schemes.
9. Create custom brushes, use the Mixer Brush for freehand painting in Photoshop, and turn images into paintings.
10. Create Mood & Trend Presentation Boards, creating textile patterns with Photoshop.
11. Creating women's wear, kids wear & men's wear illustrations using pen tool.
12. Creating invitation card, visiting cards and greeting cards.

Reference Book:

- Faulkner, Andrew and Chavez, Conrad. (2015 Edition) Adobe Photoshop CC.

Teaching Learning Process:

- Class discussions
- Video Presentations
- Demonstrations and workshop
- Design-analysis based assignments
- Fashion Illustration Assignment

Assessment Methods: For each course the assessment is as follows:

For practical (maximum marks 100):

1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

The result is declared in terms of letter grade and grade points for each course.

Keywords

- Computer Aided Design
- Theme Boards
- Textile Print

SFFD255A , GARMENT CONSTRUCTION LAB Credit-2

Course Objective:

- The students acquire the skills and knowledge that are appropriate for developing garment and learn various techniques to assemble the end product. To understand the importance and necessity of various construction techniques for different fabrics, and to acquire the skills to apply those construction techniques in a sample form.

Course Learning Outcomes

After completing this course, the learner will be able to:

CO1: Define basic sewing terminologies.

CO2: Explain the preparatory steps of garment construction such as straightening, layout, marking and cutting.

CO3: Explain the methods of construction of components such as Seams, tucks, pleats, gathers, plackets, pockets, hemlines, necklines, collars, cuffs etc.

CO4: Describe the fullness removal techniques such as sleeves, necklines, collars.

CO5: To understand the different parts of the sewing machine and their functions & identify the causes of working defects of sewing machines and ssolution.

List of Experiments

1. Machine seams: Plain seam, Run 'n' fell, corded seam, Bias seam
2. Tucks: Plain Tucks, Vertical Tucks, Cross Tucks
3. Pleats: Knife Pleat, Box Pleat, Inverted Pleat
4. Plackets& Gathers: Two piece, one piece, Single and Double Thread Gathers
5. Pockets: Patch pocket, Flap pocket, Welt pocket, cargo pocket, in seam pocket, kangaroo pocket, seamed pocket , Cross pocket
6. Sleeves: Sleeves: Plain, Puff, Petal, Magyar, cap sleeve, bell sleeve, shirt sleeve
7. Collars & Neck Lines: Collars: Peter pan, Cape collar, Sailor collar, shirt collar
8. Necklines: 'V',' 'U', Round, Boat, Key Hole, Sweetheart Neckline

9. Dresses and Jumpers: Princess Style line, Tent Foundation, Tent variation
10. Construction of Baby Frock. (3 years to 5 years) Including Sleeve, Collar, Tucks/ Gathers, Interlining.
11. Construction of Baby Frock. (3 Years to 5 Years) Including Placket, Pockets, Neckline, Pleats.

Reference Books:

1. Readers Digest, January 1, 1981 Complete Guide to Sewing, The Readers Digest Association.
2. Alison Smith, Doring Kindersely, 04 Aug 2003 Complete Book of Sewing.
3. Gladys Cunningham, January 1, 1969 Singer Sewing Book, the Singer Company, 1st edition.

Teaching Learning Process:
- Demonstrating
- Collaborating
- PPT

Assessment Methods:
For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Keywords:
· Sewing
·Apparel Design and Construction

SFFD257A   SUMMER TRAINING -I   Credit-1

Course Objective:
- To gain practical knowledge of various department workflow in apparel and textile l industry & to gain hands on experience of working in a professional manner.

Course Learning Outcome:
After completing this course, the learner will be able to:
CO1. To involve students with fashion industry professional.
CO2. To enhance their practical knowledge.
CO3. Students will participate in the ongoing activities of the organization as advised by the industry mentor.
CO4. Collect the required information and prepare a written report to be presented in the department.
CO5. To prepare a project based on his/her industry learning.

Assessment Methods: For each course the assessment is as follows:
End term evaluation of 100 Marks

Result is declared in terms of letter grade and grade points for each course

Keywords
- Apparel industry.
- Practical Knowledge.
- Professional working.

SEMESTER- IV

SFFD202A   FASHION MARKETING & E-TAILING Credit-4

Course Objectives:
- To provide an overview of the evolution as well as the current structure and status of fashion marketing. To develop understanding and appreciation of the principles of marketing, retail, to create an understanding of the broad categories of e-tailing business models.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: State the importance of retailing in marketing.
CO2: List the important structural changes in the retail sector. Describe the unique aspects of apparel retailing.
CO3: Classify the different types of retail outlets. Describe the role of 4 Ps in retail marketing.

CO4: Compare the roles and responsibilities of different retail jobs
CO5: To learn the e-tailing business model, traits of effective e-tailing sites and essential web content of e-tailing sites.

Theory Contents

UNIT I
Understanding Marketing and Consumers:- Definition, Importance, Scope, Various marketing concepts, Marketing mix, Market segmentation-Targeting- Positioning, Marketing vs. Selling, Responsibilities of a marketing manager, Concept and components of understanding Consumer Behaviour, Factors Influencing Consumer Buying Behaviour.

UNIT II
Pricing & Sourcing Decisions: - Objectives, Factors Affecting Pricing Decisions, Pricing Methods, Price Changes, Pricing Strategies, Mark-ups and markdowns, Sourcing- Types of sourcing- factors affecting sourcing decision.

UNITIII
Branding **& Promotion Decisions**: Promotion Mix, Fashion advertising, Sales Promotion, Public Relations, Direct Selling and Online Marketing Personal Selling Process, Managing the Sales Force, Evaluating Performance. Branding-Introduction, strategies, image building, brand expansion etc.

UNIT IV
Overview of Indian e-tail scenario: Uniqueness of apparel in e-tailing, Steps involved in e-tailing, Types of fashion e-tail outlets, Strengths & weaknesses of apparel retail & e-tail from vendor and consumer points of View. Basics of E-tail Business: Broad categories of e-business models: brokerage model, advertising model, intermediary model, merchant, manufacturer, affiliate, community, subscription model, Managing inventory, E-business customer service, Steps in setting up an online store, Marketing an e-business, Traits of effective e-tailing sites, Essential web content of e-tailing sites

Textbooks:

1. Joseph P. T. (2015). E-Commerce: An Indian Perspective. New Delhi: PHI Learning
2. Whiteley D. (2017). E-Commerce: Strategy, Technologies and Applications. New York:McGraw Hill Education

Reference Books:
1. Chaffey D. (2013). E-Business and E-Commerce **M**anagement: Strategy, Implementation
2. and Practice (5th edition). New Delhi: Pearson Education India
3. Laudon C., Traver C. (2018). E-Commerce 13th Edition. London: Pearson

Teaching Learning Process:
- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations

Assessment Methods:

As per University rules For each course the assessment is as follows:

For theory (maximum marks 100):

1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Key Words:

- Fashion marketing
- Pricing
- Brand promotion
- Apparel Etail
- Online fashion stores

SFFD204A   HISTORY OF FASHION   Credit-4

Course Objectives:
- To acquire the knowledge about the understanding and appreciation of the evolution of the Indian and western clothing at the cradle of the civilization, prehistoric times through the classical eras to the middle ages and in the most recent times. To develop an understanding of Indian and western costumes which acts as a vital piece of material that helps to understand what has happened in the past and how it affects our present.

Course Learning Outcome:

After completing this course, the learner will be able to:

CO1: This course helps the student to see fashion design through the prism of history.

CO2: Students will understand traditional clothing styles of various countries.

CO3: Student will acquire knowledge of Ancient Egypt, Ancient Greek, Ancient Rome, and Renaissance.

CO4: Through this course student will understand the evolution, changes and developments in clothing in the Indian context as well as in British era.

CO5: Understand to create a wardrobe that represents a certain character trait. Sometimes they'll be called to replicate the clothing of a historical period. Other times, they might find themselves imagining how to dress characters in the future, or in a fantasy land.

Theory Content

UNIT I
History of Indian Costume I: Pre Historic Era, Vedic Period, Maurya and Sunga Period, Satvana period.

UNIT II
History of Indian Costume II: Kushan period, Gupta period, Mughal, British.

UNIT III
History of Western Costumes I: Ancient Egypt, Ancient Greek, Ancient Rome, Renaissance.

UNIT IV
History of Western Costumes II: History of fashion from18th, 19th and 20th century.

Textbooks:

1. Bhatnagar, Dr.Parul. (2004) "Traditional Indian Costumes and Textiles", Abhishek Publication, Chandigarh.
2. Haver, James. "Costumes & fashion, a concise history" 4th edition.

Reference Books:

1. Alkazi, Roshen. (2008) "Ancient Indian Costumes Vol. I and II", Art Heritage.
2. Bhandari, Dr. Vandana. (2005)"Costume, Textiles and Jewellery of India: Traditions in Rajasthan", Mercury Books, London.

Teaching Learning Process:
- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Visit to Craft Fairs and Museums
- Experiential learning through demonstrations

Assessment Methods:
As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Keywords
- Global fashion
- World costumes
- Costume design

SFFD206A   QUALITY CONTROL IN TEXTILE & APPAREL   Credit-4

Course Objectives:
- To impart knowledge about the assessment of the quality analysis and assurance and understanding of the garment labels as well as the rights and responsibilities of consumers.
- To impart knowledge about the tests and standards set in the garment industry on which products are evaluated.

Course Learning Outcomes:
After Completing this Course, the learner will able to:
CO1: Evaluate the quality of garments based on various criteria.
CO2: Explain the quality control and assurance process in apparel industry.
CO3: Evaluate the quality standards as per the specification.
CO4: Interpret the labels attached to garments particularly the wash and care labels.
CO5: Evaluate the textile testing methods and processes.

UNIT I
Introduction –Definition of quality, Quality control and its necessity, inspection and its importance – functions of inspection, systems of inspection, types of inspection –hundred percent inspection, sampling inspection & AQL standards, Quality assurance, Difference between quality assurance and quality inspection.

UNIT II
Quality standards, statistical quality control– control charts, applications, sampling, importance, and use of sampling techniques. Total quality management, basic production systems – principles for choosing a production system, production control.

UNIT III

Apparel classification and categories.Understanding procedures in sampling and sample development, different stages of samples and their requirements from Proto to Shipment sample Proto, fit, size set, pre-production, TOP, sealer etc. Care labelling of apparel and textiles

UNIT IV

Textile Testing & Product Evaluation, Quality control for fabrics – different types of defects in fabrics – major and minor faults, Precision & Accuracy of Test Methods- Atmospheric conditions for testing, Strength properties of apparel, Fabric stretch properties, Dimensional changes in apparel due to laundering,Bow and skew ness, Soil and stain release testing, Abrasion resistance, Colour fastness, Testing of fusible interlinings.

Textbook:

1. Sara J.Kadolph, 'Quality Assurance for textiles and apparel',1st edition, Fairchild Books,1998
2. Pradip V Mehta, SatishK.Bharadwaj, 'Managing quality in the apparel industry', New Age International, 01-Jan-1998

Reference Books:

1. Grover E G and Hamby D. S "Handbook of Textile Testing and Quality Control", Wiley Eastern Pvt. Ltd., New Delhi, 1969.
2. Kothari V. K. "Testing and Quality Management" Volume 1, IAFL Publications, New Delhi.

Teaching Learning Process:

- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Experimental learning through demonstrations and workshop
- Case Study, Market Survey and Field-based learning

Assessment Methods:

As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):

1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Key Words:
- Quality Assessment
- Textile & Apparel Quality Assurance
- Sampling

SFFD250A   **PATTERN GRADING LAB**   **Credit-2**

Course Objective:

- Pattern grading is necessary for a designer to make garments for a fashion line for different body types. With grading, a student learns how to size up or size down for final pattern. Grading also helps in adapting the size of a pattern to a person's changing body size.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: Explain the methods of developing Grading patterns
CO2: To understand overview of pattern Grading method
CO3: Demonstrate advance proficiency in pattern development
CO4: Grade patterns for Creating new size pattern using basic bodice blocks like then convert it from size S to size XXl.
CO5: Develop Basic Trouser grading pattern from S size to XXL Size.

List of Experiments

1. Introduction to grading: - grading concept and importance, grading terminology, sizes and measurement,
2. Methods of grading: - stack method, track method, types of grading- horizontal, vertical and diagonal
3. Grading of master grades: - basic bodice, front & back, basic sleeve, basic collar, torso
4. Grading of skirts and trousers: - straight skirt, front & back
5. Grading of skirts and trousers: - trousers, front & back
   Reference Books:
   1 Kathy K. Mullet(24 September 2015)Concept of Pattern Grading
   2.Gerry Cooklin(10 November 2009)Pattern Grading for Men's Clothes
   3.Gerry Cooklin(28 October 2009)Pattern Grading for Women's Clothes.

Teaching Learning Process:
- PowerPoint Presentations
- Video Presentations
- Experiential learning through demonstrations and workshop

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key words

- Pattern Draft
- Grading
- Master pattern

SFFD252A ADVANCE GARMENT CONSTRUCTION LAB Credit-2

Course Objective:
- The application of the creative and specialized sewing technique to develop a highly structured, contoured garment using professional standard methods. Students are require to develop design samples to support their own signature collection.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: Explain the preparatory steps of garment construction such as straightening, layout marking and cutting of patterns.
CO2: To understand functional importance of various components in a garment.
CO3: Understand the elements and principles of design relevant to garment design
CO4: Understand method of construction of various components such as types of necklines, collar, facing, Sleeve variation and sleeve finishes
CO5: Understand   various methods of construction & attaching fastener in garments.

List of Experiments

1. Types of necklines: Round and jewel, Square and glass, V shaped, straight and curved, Sweet heart
2. Neckline finishing by using facings and interfacings: Shaped facing, Bias facing, Single layer binding, Double layer binding
3. Types of Collars: Finishing collars using interfacing, Flat collar, Rolled collar, Stand collar, Shirt collar, Notch collar, Shawl collar
4. Types of Sleeves and Sleeve Finishes: Basic sleeve types (Half sleeve, full sleeve and 3/4 sleeve), Sleeves finish, Set in sleeves, Puff sleeve, Flare sleeve, Shirt sleeve Other Modified Sleeves-Raglan, Kimono, Dolman

6. Pocket Making and Application: Patch pockets- different types, Unlined patch pockets, Lined patch pockets, Patch pockets with flap, Flap and separate welt pocket, Pleated Pocket
7. Fasteners: Inserting a zip fastener: A lapped standard zip, Concealed zip, Open end zip
8. Buttons- Types attaching: Positioning and buttons, Hook and eye, Press-studs, Touch and close

Final Submissions:
- Construction of 2 female formal dress by using necklines/ collar, pocket, placket, facing / binding.
- Construction of 1 female casual wear top by using necklines/ collar, sleeves, tucks, fasteners, facing / binding.
- Construction of 1 high waist pencil skirt / panel skirt & 1 low waist tiered skirt / high low skirt, with fasteners.

Reference Books:

1. Readers Digest, January 1, 1981 Complete Guide to Sewing, The Readers Digest Association.
2. Alison Smith, Doring Kindersely, 04 Aug 2003 Complete Book of Sewing.
3. Gladys Cunningham, January 1, 1969 Singer Sewing Book, the Singer Company, 1st edition.

Teaching Learning Process:
- Class discussions
- Video Presentations
- Experiential learning through demonstrations and workshop

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words

- Garment construction
- Kids wear design
- Production

SFFD254A　　　　　　　**SKETCHING-II LAB**　　　　　　**Credit-2**

Course Objectives:

- Student will gain the knowledge of drawing technicalities & details of various Fashion elements with the correct Terminologies. Incorporating above elements on a Fashion figure with necessary details to come up with an appropriate Fashion Illustration.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: To be able to understand and convey the look of the garment and style features to the production team
CO2: To be able to create the variations / options in overall design
CO3: To be able to provide options in terms of colour combinations and colour ways
CO4: To be able to render different fabric features like prints, woven textures and embellishments both 2D and 3D in the sketches
CO5: To be able to highlight the garment details for effective use for product development

List of Experiments
1. 2D & 3D rendering with various kind of colors, papers, foil, fabric etc.
2. Visual idea presentation with collage making.
3. Street wears (Women's & men's wear collection): Conceptualization, Design Development sheets.
4. Party wears (Women's & men's wear collection): Conceptualization, Design Development sheets.
5. Traditional Wear (Women's & men's wear collection): Conceptualization, Design Development sheets.
6. Office wears (Women's & men's wear collection): Conceptualization, Design Development sheets.
7. Kids Wear collection for infants, toddlers & teenagers: Conceptualization, Design Development sheets.

Reference Books:

1. Sketching and Drawing by VasudevKamath published by Jyotsna Prakashan Pune ,2nd Edition,2006
2. Figure study made easy by Aditya Chaari published by Grace Publication,
3. Draw and Paint by Pundalik Vaze published by Jyotsna Prakashan Pune ,1st Edition,2002
4. Carol A. Nunnelly, The Encyclopedia of Fashion Illustration Techniques

Teaching Learning Process:

- Lab
- Video Presentations

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words:

- 2D & 3D fabric rendering
- Stylized drawing
- Men's & women's wear collection

SFFD256A   SUSTAINABLE FASHION   Credit-2

Course Objectives:
- To enable an understanding of the concept of sustainability and life cycle assessment and analyzing various environmental indicators; such as: energy, carbon footprint and water footprint and to apply the concept of recycling and reusing material for textile/ apparel production.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1. Ability to develop process flow charts and collect data
CO2. Analyze energy, water and carbon footprint of a textile process
CO3. Learning of dye effluent removal and testing of biodegradability of fibres
CO4. Understanding about stainable brands, sustainable textiles.
CO5. Develop a product range based on sustainable.

List of Experiments

Life Cycle Assessment
Concept of "Cradle to Grave", developing a process flow chart, data collection, Assessment of energy consumption of a textile product, Assessment of carbon footprint of a textile product, Assessment of water footprint of a textile product

Understanding and Enhancing Textile Sustainability
Removal of dye effluent using natural material, Extraction of fiber from agro waste residues
Case studies of brands addressing sustainability in different ways

Product Development from Sustainable Materials
Product development using textile waste and thermoset resins
Application of recycled/reused material in fashion

Reference Books:

- Blackburn, R.S. (2009) Sustainable Textiles: Lifecycle and Environmental Impact: Woodhead Publishing Series in Textiles, ISBN: 9781845694
- Gordon J. F. Hill C. (2014), Sustainable Fashion: Past, Present and Future, Bloomsberry Academic Publications, New York
- Muthu S. (2017), Sustainable fibres and Textiles, ISBN**:** 9780081020418, Woodhead Publishing

Teaching Learning Process:

- Lectures
- Classroom Discussions
- PowerPoint Presentations
- Video Presentations

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words:

- Sustainable fiber
- Sustainable textile
- Sustainable garment design

SFFD301A FASHION FORECASTING IN APPAREL DESIGN Credit-4

Course Objective:
- To familiarize the students with the fashion forecasting industry. Role of forecaster in apparel industry. To make the students how to do research for fashion forecast or for preparing a collection or concept board as per future consumer demands.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: Define basic fashion forecasting terminologies.
CO2: Describe the importance of forecasting & types of fashion forecasting.
CO3: Identify the basic structure of fashion forecasting & understand the forecasting process.
CO4: Role of forecaster in fashion industry
CO5: Role of forecaster in apparel design & textile design.

Theory Contents

UNIT I
Introduction to Fashion Forecasting, Meaning of Fashion, Forecasting, The role of a forecaster, the precision of the forecast, the fashion industry's components, the structure of the fashion industry, Information Network and the selling strategy.

UNIT II
Research Process in Forecasting -   Fashion marketing research, Purpose of research, research design & data sources, Sampling methods, Data Collection, Forecasting Fashion, Forecasting services, Market Segmentation, Marketing mix.
UNIT III
Demand Forecasting-Types of Forecasting, Approach to Forecasting, Forecasting Demand for New Products, Criteria of a Good Forecasting Method, Presentation of Forecast to the Management, Control or Management of Demand.

UNIT IV
Fashion Products and its importance – Fashion Industry & new Product Development , Fashion Designers role in apparel market, Branded Products, personal labels, stores that seek the merchandise.
Text Book:

1. Fashion Forecasting ,Brannon Evelyn L. Fairchild Books, New York 3rd,2010

Reference Books:

1. Fashion Forecasting Perna Rita Fairchild Books, New York 1992
2. Fashion Forecasting Mc Kelvey Kathryn & Munslow Janine Wiley-Blackwell 2008
3. The Trend Forecaster's Handbook Raymond Martin Laurence King, U.K.

Teaching Learning Process:

- Lectures
- Class discussions
- PowerPoint Presentations
- Video Presentations
- Experimental learning through demonstrations and workshop
- Market Survey and Field-based learning

Assessment Methods:
As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):

1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Key Words:

- Fashion
- Fashion Forecaster
- Fashion Forecasting
- Apparel Design
- Fashion Research Process

SFFD303A   FASHION PROMOTION & COMMUNICATION   Credit-4

Course Objective:

- This course is designed for students to develop careers in the fashion industry as fashion journalists (in print, digital or television), fashion photographers. This course will give understanding about films, styling, PR and events that will be really helpful for students how to wants to work in fashion advertising- fashion media, film & television.

Course Learning Outcome:

After completing this course, the learner will be able to:

CO1. This course is designed to encompass knowledge of fashion communication through the methods of PR, Advertising, Fashion photography and Event management etc.

CO2. Students will learn different types of lighting such as one point, two point and three-point lighting in this course.

CO3. This course will learn how to maintain public relation, how to do brand positioning and brand building of the products and the company will be done.

CO4. Students will also learn to design exhibitions and events for the particular brand.

CO5. Students will acquire the knowledge of basics parts of a professional camera, rules of composition of frames in photography, camera shots and camera angles to represent their idea in an effective manner.

Theory Contents

UNIT - I

Introduction to Fashion communication: Fashion media, fashion writers, fashion critics, fashion reporter, fashion journalism for internet and broadcast media research, corporate journalism, events planning and Exhibit design.

UNIT – II

Public relations, brand management (brand positioning, brand building and measuring) as applied to the fashion system, luxury fashion brands, strategies and public relations specific to luxury fashion, Event design tools and principles for fashion/luxury brands.

UNIT – III

Introduction to camera: Basic parts of a professional camera and its function, Principles of composition, Basic principles of photography, types of lenses, Focal point and its uses, viewpoint & camera angle.

UNIT –IV

Fashion styling, shooting with models and makeup artists, Lighting techniques – Indoor model photography, outdoor model photography, Photojournalism: Role and impact of a photograph in print media, Review and analysis of some outstanding photographs, Photo editing- selection of photograph, cropping, caption writing.

Textbook:

1. Jethwaney, Jaishri N. "Public Relations" (3rd Edition) ND: Sterling.

Reference Books:

1. Cutlip S. M. & A. H. "Effective Public Relations" Prentice Hall, New Delhi Center
2. Jackson, Pitman "Corporate Communication for Managers" Pitman Publishing.
3. Mehta D. S. "Handbook of Public Relations in India" Allied Publishers Pvt. Ltd. Mumbai.
4. Langford, Michael. (2000) "Basic Photography" (7th Edition) Focal Press, Private Limited.
5. Folts, James A., Lovell, Ronald P., Zwahlen Fred C. (2002) "Handbook of Photography" (6th Edition) Thomson Learning.

Teaching Learning Process:

- Lectures
- Class discussions
- Video Presentations
- Market Survey and Field-based learning
- Design-analysis based assignments
- Experimental learning through demonstrations and workshop

Assessment Methods:
As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Keywords
- Fashion Communication.
- Fashion Photography.
- Public Relations.
- Brand Management.

SFFD305A   FASHION RETAIL & VISUAL MERCHANDISING   Credit-4

Course Objectives:
- To provide an overview of the evolution as well as the current structure and status of the apparel retailing in India. To develop and understanding and appreciation of the principles of marketing, retail operations and the basic principles of visual merchandising and effective customer handling practices.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1: State the importance of retailing in marketing & structural changes in the retailing sector.
CO2: Describe the unique aspects of apparel retailing & Classify the different types of retail outlets.
CO3: Explain the main operational processes of retail stores
CO4: Give understanding about elements of visual merchandising, compare the roles and responsibilities of different visual merchandiser.
CO5: Explain the use of various visual merchandising practices

Theory Contents:
UNIT I
Overview of Retailing: Role of retail in marketing system, Overview of Indian retail sector, Retail evolution in India: structural changes and emerging trends, Classification of Retailing Channels (online, offline, multichannel, cross-channel), Formats (in-store and non-store), and Types of Outlets (ownership and merchandise based)

UNIT II
Retail Marketing & Operations: Product – merchandise assortment and inventory management**.** Place – Store Management, store location, Floor layout**.** Promotion – in-store and off-store promotion and advertising**.** Roles and responsibilities of retail store manager, employee management

UNIT III
Introduction to Visual Merchandising: Introduction **Visual Merchandising** and Importance**.** Schedules- Seasons, Promotions, Special sales, Themes**.** Types of Display- Window display, Interior display, Various Types of Store Layouts, Grid layout, Loop-path layout, Free-form layout, Spine layout. Merchandise Presentation Techniques- Idea-Oriented Presentation, Style/Item Presentation, Price Lining

UNIT IV
Store Image: Introduction, Objectives, Concept of Image Mix, Elements of Display- Merchandise, forms, props, signage, lighting**,** Merchandise, Fixtures, Visuals, Sound/Music, Odor, Common problems in display, Visual Merchandising at Different Stores, Apparel store, Furniture store, Future Prospects of Visual Merchandising.

Textbook:

1. Mr Raj Kumar Mascreen, "Visual and Fashion Merchandising", Sikkim Manipal University, Gangtok.
2. Balley Sarah, Baker Jonathan (2014). Visual Merchandising in Fashion. London: Bloomsbury Publishing
3. Dunn Patrick, Lusch Robert, Griffith David A., (2002). Retailing. USA: Harcourt College Publishers
4. Levy Michael, Weitz Barton A., (1995). Retailing Management. US: Irwin Publishers

Reference Books:

1. Martin M. Pegler, "Visual Merchandising and Display", 6th Edition.
2. Tony Morgan, "Visual Merchandising Window and In-store Displays for Retail", Second Edition
3. Ellen Diamond "fashion retailing" 2nd edition.
4. Frances D., Spoone H, Greenwald H. (1992). Retail Fashion Promotion and Advertising. USA: Macmillan.
5. Stone E. (1987). Fashion Buying. New York: McGraw- Hill.

Teaching Learning Process:

- Lectures
- Classroom Discussions
- PowerPoint Presentations
- Video Presentations

Assessment Methods:

As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Key Words:
- Retail
- Retail marketing
- Retail merchandiser
- Visual merchandiser
- Display
- Store design

SFFD351A   ART OF DRAPING   Credit-2

Course Objective:
- To understand the method of draping & learn how to drape bodice, sleeve, skirts & cowl necks. Develop three-dimensional design ideas through draping of muslin on a body form. Evaluation of existing garments and/or sketches to determine appropriate draping techniques needed to develop design.

Course Learning Outcomes:
After completing this course, the learner will be able to:
CO1. To learn the basic draping terminology & fabric preparation for draping & concept of draping art.
CO2. To enable students to handle various types of fabrics and develop their own designs into a draped garment
CO3. Be able to appreciate the importance of the grain of the fabric in relation to design Style read a given design and prepare a dress for the same
CO4. Create basic blocks like, bodice, skirt and trouser using draping method & able to convert flat fabric into a garment with proper fit
CO5. Learn to develop new design by using your creativity.

List of Experiments

1. To understand the terminology of draping, dummy preparation, muslin preparation for draping.
2. Drape basic bodice block- front & back, with one & two dart combination.
3. Dart manipulation through draping – french dart, centre front waist dart, side seam dart, mid neck dart, cluster dart, gather dart etc.
4. Drape basic sleeve, basic straight skirt front & back, basic trouser, basic torso.
5. Drape Any 2 variation of skirt, torso dress, top & trouser
6. Drape basic princess bodice front & back, drape a corset princess bodice.
7. Drape cowl neck front, twist and knots front dress / top.
8. Pleated saree drape, a casual saree drape, Gujarati style saree drape, pant style saree drape

Reference Books:

1. Helen Joseph Armstrong, (1999) Title of the Book, Draping for Apparel Design.
2. Karolyn Kiise, (1 October 2013) Draping: The Complete Course.
3. Hilde Jaffe, Professor Emeritus, (27 October 1999) Draping for Fashion Design, 5th Edition, Fashion Institute of Technology.

Teaching Learning Process:

1. Lab Discussions
2. PowerPoint Presentations
3. Video Presentations
4. Demonstrations and workshop

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Key Words:

- Draping
- Dummy
- Dummy Preparation
- Muslin Preparation
- Design Development

SFFD353A   CRAFT DESIGN & RESEARCH PROJECT   Credit-2

Course Objectives:
- To gain knowledge about the Indian Craft and Cluster Design Process & promote Indian artesian & Indian craft at global level.

Course Learning Outcome:
After completing this course, the learner will be able to:
CO1. Student will understand and appreciate traditional crafting techniques.
CO2.This course will give detailed overview to the learners about various traditional Indian crafts with in depth focus on understanding of the craft, the crafts community.
CO3. Student will gain knowledge of the crafts design process, raw materials and supply chain.
CO4. This course focuses on field, hands on experience of the craft clusters from concept to

development of product.

CO5. The knowledge gathered from on field research and practical, will be channelized in creation of a design collection using the learnt craft techniques.

List of Experiments

1. Identification of Craft for Project research and documentation. To understand the importance and concept of Traditional Craft and how it binds our culture.
2. Identification of research topics within the craft.
3. Research on favorable Crafts/ Cluster (locations wise where students can travel to learn the craft). Create database of local representatives for the craft with the persons photograph and contact details.
4. Understanding the local craft from concept to creation.
5. Documentation of complete manufacturing processes and finishing and presentation.
6. Development of mood boards based on selected cluster.
7. Creating a storyboard :
   Flat sketch, Ruff Fashion illustration with draping of garment. Final sketches, Fabric swatches, Trimmings, Ornamentation &Textures
8. Making of toils (muslin pattern) for the selected collection.
9. Presentation & Feedbacks of theme & Survey.
10. Co-ordinate accessories of selected theme.
11. Final collection of selected theme ('4' Garment).
12. Photo-shoot and Look Book preparation.
13. Client Presentation CAD.

- **Note**: (15 Days) survey to any selected state cluster. Carry all important documentation equipment, like camera, notebooks, (optional –recording audio/video), local guide no, emergencies no etc. Each student must work on craft based Design Project and develop a women's wear / Men's wear based on his or her design philosophy, for a well-defined customer profile.

Additional Resources:

- www.style.com
- www.wgsn.com

Teaching Learning Process:

- Lectures
- Class discussions
- Video Presentations
- Demonstrations and workshop
- Visit to Craft centers
- Fashion Illustration Assignment
- Survey and Field-based learning

Assessment Methods: For each course the assessment is as follows: For practical (maximum marks 100):

- Conduct of Experiment/Lab Work/Class Activities – 30 Marks
- Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
- Attendance- 10 marks
- End Term Examination– 30 marks

Keywords

- Traditional Craft
- Craft Research
- Design Project

SFFD355A   SUMMER TRAINING -II   Credit-1

Course Objective:

- To gain practical knowledge of various department workflow in apparel and textile l industry & to gain hands on experience of working in a professional manner.

Course Learning Outcome:

After completing this course, the learner will be able to:

CO1. To involve students with fashion industry professional.

CO2. To enhance their practical knowledge.

CO3. Students will participate in the ongoing activities of the organization as advised by the industry mentor.

CO4. Collect the required information and prepare a written report to be presented in the department.

CO5. To prepare a project based on his/her industry learning.

Assessment Methods: For each course the assessment is as follows:

End term evaluation of 100 marks.

Result is declared in terms of letter grade and grade points for each course

Keywords

- Apparel industry.
- Practical Knowledge.
- Professional working.

SEMESTER -VI

SFFD302A   FASHION ENTREPRENEURSHIP SKILLS   Credit-4

Course Objective:

- Basic objective of the course is to develop entrepreneurship skills among the students. To familiarize the students with the process and procedure of setting up new enterprises.

Course Learning Outcome:

After completing this course, the learner will be able to:

CO1.This course develops an entrepreneurial mind-set to evaluate opportunities for new business in the fashion industry.

CO2.Student will develop research and creatively solve problems, demonstrating expert judgment.

CO3.Student will understand the ethical responsibility relating to your professional practice in fashion entrepreneurship.

CO4. Student will analyze, synthesize and reflect on complex theories and recent developments.

CO5.Student will get acquire professionally communicate propositions, processes and outcomes.

UNIT-I

Introduction to Entrepreneurship, Entrepreneur – Enterprise, development of entrepreneurship, role of entrepreneur's in development of apparel and fashion industry, Qualities of good Entrepreneur, Characteristics of the Entrepreneur.

UNIT-II

Entrepreneurial support by state, central financial institutions, organizations, Government policies with reference to textile and apparel industry, Self- employment and the labour market, Financial Analysis & Means of Financing.

UNIT III

6 M's of an Entrepreneurship- Management, Money, Manpower, Materials, Machines, & marketing, Factors influencing entrepreneurial development – Environment, Psychological, Socioeconomically, Legal, Business planning - Starting a new venture related to apparel industry, essentials of a successful centre, Formalities of opening a firm, the status of firm, individual proprietor/partnership/ Pvt. limited company & public Ltd Company.

UNIT-IV

Location & plant layout- factors influencing plant location, building, structure, lighting, ventilation, material handling, availability of labour, material management and transportation, Plant layout, ergonomics safety & security to be considered while planning the layout, Cash flow statement.

Textbook: -
1. Panda,"ShibaCharan,Entrepreneurship Development", Anmol Publications.

Reference Books:

1. Mohanti, Sangram Keshari. (2009) "Fundamentals & Entrepreneurship" PHI learning.
2. Terry & Franklin, (2002)"Principles of Management", AITBS.
3. Desai, Vasanth.(2009) "The dynamics of entrepreneurial development & Management" (6th edition) Himalaya publish house.

Teaching Learning Process:

- Lectures
- Class discussions
- Video Presentations
- Market Survey and Field-based learning
- Experimental learning through demonstrations and workshop

Assessment Methods:

As per University rules For each course the assessment is as follows:
For theory (maximum marks 100):
1. CAT Exam- Conduct of Experiment/ Class Activities: 30 Marks
2. Midterm Exam – Field Reports/ Project/ Presentations/ Assignments:30 Marks
3. End Term Examination: 30 Marks
4. Attendance: 10 Marks

Result is declared in terms of letter grade and grade points for each course

Keywords
- Entrepreneurship Development.
- Entrepreneurial support.
- Entrepreneurial development.
- Plant Layout.

Course Objective:
- This subject purely concentrates on developing a collection. This subject also aims at a thorough research on selected theme supported by a design process to develop the whole range of clothing collection. To teach students about the conceptualization of design and to construct a collection.

Course Learning Outcome:

After completing this course, the learner will be able to:

CO1: To gain research, analyze, appraise and synthesize appropriate contextual information related to one's design collection.

CO2: Be able to identify and communicate clear aims and objectives related to the client and user requirements.

CO3: Be able to demonstrate the ability to follow the design process to develop a design collection.

C04: To impart practical skills for presentations of Design Collection.

CO5.To gain emphasizes an original yet commercial realistic approach towards the collection, plan for fashion show.

List of Experiments
1. Research on the topic selected/ Selection of Themes of Collection.
2. Fashion Forecasting and color Forecasting, Use of online service for forecasting.
3. Selection of Mood board, story board, fabric development, design development & range development.
4. Making of toils (Muslin patterns) and the final product in the form of a design collection
5. Development of Different Surface Ornamentation (Dyeing, printing, embroidery, Fabric on fabric)
6. Knowledge of raw materials and processes that make up a fabric, Development of different types of fabrics
7. The students will develop the patterns of the range based on the creative pattern making / advance draping methods.
8. The students will construct the range based on the required Construction techniques.
9. Technical Details, Working Drawings, development of spec, flat sketch and costing
10. Prepare Final Design Collection
11. Fashion Photography. Fashion dressing – makeup- indoor, outdoor, hairstyle,
12. Self-grooming- Introduction, importance and application.

    Note- Showcase their collection through fashion show / exhibition (both).

Reference Books:
- Faerm, Steven, (2012) "Design your fashion portfolio" A&C Black Publisher.
- Fulkner, Andrew & Chaez, Conrad. (2015) "Classroom in a book"

Teaching Learning Process:

- Lectures
- Class discussions
- Video Presentations
- Demonstrations and workshop
- Forecasting Research
- Fashion Illustration Assignment
- Survey and Field-based learning

Assessment Methods: For each course the assessment is as follows:
For practical (maximum marks 100):
1. Conduct Of Experiment/Lab Work/Class Activities – 30 Marks
2. Lab Records/Reports/Quizzes, Viva-Voce- 30 Marks
3. End Term Examination– 30 Marks
4. Attendance- 10 marks

Result is declared in terms of letter grade and grade points for each course

Keywords

- Forecast
- CAD
- Theme based Collection.
- Surface ornamentation.
- Pattern making.
- Garment Construction.
- Tech Pack.