

CONTENT

Sl. No.	Particulars	Page No.
01	Preamble	02
02	Exit Options and Credit Requirements	04
03	Proposed curriculum structure for Undergraduate Fashion Degree Programme	05
04	Eligibility Criteria	9
05	Programme Outcomes	11
06	Programme Specific Outcomes	12
07	Career and Job Opportunities	15
08	IC Model Programme structure for Bachelor of Science (Basic degree /Hons) in Fashion Design with practical Semester-wise course framework and distribution of papers for the three Years B.Sc. FAD. Degree & four years B.Sc. (Hons.) with credits	17
09	Proposed core syllabus for four years Bachelor of Science (Hons.) Degree in Fashion & Apparel Design	20
10	First semester – Theory and Practical	20
11	First Semester – Open Electives	30
12	Second semester — Theory and practical	33
13	Second semester—Open Electives	43

PREAMBLE

The Curriculum designed by the committee in trajectory with National Education Policy 2020 guidelines aims to provide framework for understanding fashion design and accessories by sensitizing students to conceptual, visual, and perceptual design process. The framed syllabus and the course policy are learner centric with varied levels of skills in each academic year. Program structure and selected courses give diverse choice of subjects according to changing trends in fashion and design under Choice Based Credit System.

The Indian Fashion Industry needs design professional with in-depth knowledge & skills relating to design innovation and technology, there is also a domestic and international pressure on Indian designers to come up with original inputs. Therefore, keeping this in mind and overall international requirement, B.Sc. in Fashion and Apparel Design (Degree/Honours) course curriculum has been designed to deal with challenges for the upcoming design professionals to demonstrate their personal design philosophy, perpetuate innovation and creativity. This will enable the industry to come up to the global standards to apply the knowledge of designing in various fields.

As envisioned in the National Education Policy 2020 the syllabus offers holistic education and all-round development in undergraduate studies under Choice Based System, the main objective of 'Fashion Studies' is to articulate the students about the fundamentals of Fashion Design. Fashion Design as a profession includes the entire process of designing and producing fashion apparels from the fibre and yarn stage to the finished product. This course will give an overview of fashion design and elaborate on different aspects like elements of design, history of fashion, fabrics, and understanding of the body, pattern development and garment construction. Fashion is a big business and key driver for several industries.

The textile and apparel industry is pivotal for the Indian economy by way of its momentous contribution to the GDP, industrial output, export earnings and employment generation.

Government of India's thrust on textiles through 'Make in India', coupled with its emphasis on reforms and ease of doing business, augur well for the industry which offers a resilient outlook going forward. The textile sector in India is poised to grow and reach USD 226 billion by 2023. The syllabus has laid emphasis to the contents, proficiency, value-based and capability

augmentation that can equip students for self-empowerment and increased employability in the vision of our Nation.

Subject experts teaching post- graduate and under- graduate courses from various universities have contributed to preparing the curriculum. We would like to thank Dr. Mallikarjun N.L, Chairman-BoS Bachelor of Fashion Technology, Bijapur Women's University, Dr. Sadhana D. Kulloli, Chairperson, BoS Fashion Design, Davanagere University, Ms. Manasa, Chairperson, BoS Fashion and Apparel Design, Mount Carmel College, Ms.Prabha, Chairperson BoS Fashion Design, Mangalore University, Ms. Amrutha, Chairperson, BoS Interior Design & Decoration, Mangalore University for their support in framing this new curriculum and sustainable education with regional, national and global competitive knowledge in addition to best employable skills. The curriculum also promotes creativity in fashion design by adopting native uniqueness and gives ample scope to express students' inventiveness through modern tools.

The course curriculum presented in the following pages conforms to the general guidelines of NEP 2020 scheme, semester schedule, evaluation criteria and course credit structure of B.Sc. Fashion and Apparel Design (Degree/Honors) Programme. It comprises 185 credits shared over 32 core papers, 4 open electives, 8 discipline electives, 4 vocational, 8 languages, 12 skill enhancement courses. Courses on life skills, Constitution of India, Environmental Studies and Sustainability are included as per the UGC directives.

To ensure the interdisciplinary spirit of the proposed curriculum, teaching must be carried out by the faculty with M. Sc. in Fashion and Apparel Design and Ph.D. Degree in the Fashion and Apparel Design subject.

EXIT OPTIONS AND CREDIT REQUIREMENTS

Progressive Certificate in Fashion & Apparel Design, Diploma in Fashion & Apparel Design, Bachelor of Science in Fashion & Apparel Design Degree with Honors in Fashion and Apparel Design is awarded at the completion of every progressive year.

Exit With	Credit Requirement
CERTIFICATE IN FASHION & APPAREL DESIGN at the successful completion of First year (Two semesters) of Four Years Undergraduate Degree Programme.	52
DIPLOMA IN FASHION & APPAREL DESIGN at successful completion of second year (Four semesters) of the four years undergraduate Degree Programme.	100
BACHELOR OF SCIENCE FASHION & APPAREL DESIGN DEGREE at successful completion of Third year (six semesters) of the four years undergraduate Degree Programme.	144
BACHELOR OF SCIENCE WITH HONOURS FASHION AND APPAREL DESIGN at the successful completion of Four Year (Eight semesters) of the Four years undergraduate Degree Programme.	185

A student will be allowed to enter/re-enter only at the odd semester and can only exit after even semester. Re-entry at various lateral entrants in academic programmes will be based on the above mentioned earned credits and proficiency test records.

The validity of the earned credits will be for a minimum period of seven years or as specified by the academic bank of credits (ABC).

Proposed Curriculum Structure for Undergraduate Programme In B.Sc. Fashion and Apparel Design/ BFT/BFAD/BFD

SEM	Discipline core (DSC) (L+T+P) (Credits)	Discipline Elective (DSE) Open Elective (OE) (L+T+P) (Credits)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)	Skill Enhancement Courses (SEC)		Total Credits
				Skill Based (L+T+P)	Value based (L+T+P)	
I	FD-1.1(3+0+2) – Textile Science	OE-1(3+0+0): Textiles and Costume of India/ Fashion Image Management	L1-1 Language -I Kannada /Sanskrit/ Hindi Tamil/Telugu/French/Addl. English/ Malayalam (3+1+0) (3), L2-1 Language -II – General English (3+1+0) (3)	SEC-1: Digital Fluency (2) (1+0+2)	Physical Education - Yoga (1) (0+0+2)	Health & Wellness (1) (0+0+2)
	FD-1.2 (3+0+2) – Fundamentals of Fashion Design					
	FD-1.3(0+0+3) – Basics of Pattern Making and Garment Construction					
						26

SEM	Discipline core (DSC) (L+T+P)	Discipline Elective (DSE) Open Elective (OE)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)	Skill Enhancement Courses (SEC)		Total Credits
				Skill Based (L+T+P)	Value based (L+T+P)	
II	FD2.1 (3+0+2) – Dyeing & Printing in Textiles	OE-2(3+0+0): Clothing Care & Maintenance / Boutique Management	L1-1 Language -I Kannada/Sanskrit/Hindi/ Tamil/Telugu/French/Addl. English/ Malayalam (3+1+0) (3), L2-1 Language -II – General English (3+1+0) (3)	Physical Education – Sports (1) (0+0+2)	NCC/NSS/R&R(S&G) / Cultural (1) (0+0+2)	
	FD 2.2 (3+0+2) – Fashion Design & Illustration					
	FD 2.3 (0+0+3) – Garment Detailing -I					
						26

Exit Option with certificate in Fashion & Apparel Design (with a Minimum of 52 Credits).

SEM	Discipline core (DSC) (L+T+P)	Discipline Elective (DSE) Open Elective (OE)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)	Skill Enhancement Courses (SEC)			Total Credits
				Skill Based (L+T+P)	Value based (L+T+P)		
III	FD 3.17(3+0+2) – Fashion Art & Design	OE–3(3+0+0): Fashion Makeover/ Jewellery Designing	L1-1 Language -I Kannada/Sanskrit/Hindi/ Tamil/Telugu/French/Addl. English/ Malayalam (3+1+0) (3), L2-1 Language -II – General English (3+1+0) (3)	SEC-2: Artificial Intelligence (2) (1+0+2)	Physical Education- Sports (1) (0+0+2)	NCC/NSS/R&R (S&G)/Cultural (1) (0+0+2)	26
	FD 3.2(3+0+2) – Garment Detailing - II						
	FD3.3 (0+0+3): Apparel Computer Aided Design						

SEM	Discipline core (DSC) (L+T+P)	Discipline Elective (DSE) Open Elective (OE)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)	Skill Enhancement Courses (SEC)			Total Credits
				Skill Based (L+T+P)	Value based (L+T+P)		
IV	FD 4.1(3+0+2) – World Textiles & Costumes	OE–4(3+0+0) Fashion Merchandising/ Home Textiles	L1-1 Language -I Kannada/Sanskrit/Hindi/ Tamil/Telugu/French/Addl. English/ Malayalam (3+1+0) (3), L2-1 Language -II – General English (3+1+0) (3)		Physical Education - Sports (1) (0+0+2)	NCC/NSS/R&R (S&G)/Cultural (1) (0+0+2)	26
	FD 4.2 (3+0+2) – Textile and Apparel Testing						
	FD4.3 (0+0+3): Apparel Production				Constitution of India (2)		

Exit Option with Diploma in Fashion & Apparel Design (With a Minimum of 100 Credits)

SEM	Discipline core (DSC) (L+T+P)	Discipline Elective (DSE) Open Elective (OE)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill Based (L+T+P)	Value based (L+T+P)		
V	FD 5.1(3+0+2) – Fashion Accessories	FD E-1(3+0+0): /Fashion Forecasting & Trend Analysis/ Entrepreneurship in Fashion			SEC-3: Adobe Photoshop & Illustrator (2) (1+0+2)	Physical Education -Sports (1) (0+0+2)	NCC/NSS/R&R (S&G)/Cultural (1) (0+0+2)	23
	FD 5.2 (3+0+2) – Apparel Quality Management							
	FD 5.3 (0+0+3) Draping & TR cutting	Vocational-1 (0+0+3): Needle Craft & Value Addition						

SEM	Discipline core (DSC) (L+T+P)	Discipline Elective (DSE) Open Elective (OE)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)		Skill Enhancement Courses (SEC)			Total Credits
					Skill Based (L+T+P)	Value based (L+T+P)		
VI	FD 6.1 (3+0+2) – Fashion Marketing & Visual Merchandising	FD E-2 (3+0+0): Apparel Costing /Export Documentation & Trade			SEC-4: Professional Communication (2) (1+0+2)	Physical Education -Sports (1) (0+0+2)	NCC/NSS/R&R (S&G)/Cultural (1) (0+0+2)	23
	FD6.2 (3+0+2) – Fashion Business Management							
	FD 6.3 (0+0+3) Fashion Portfolio	Vocational-2 (0+0+3): Craft Documentation/Internship						

Exit option with B.Sc. Fashion & Apparel Design Degree, (with a minimum of 144 credits)

SEM	Discipline core (DSC) (L+T+P)	Discipline Elective (DSE) Open Elective (OE)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill Based (L+T+P)	Value based (L+T+P)	
VII	FD 7.1 (3+0+2) – Apparel Technology	FD E-3 (3+0+0): ECommerce in Fashion/Professional Ethics in Image Building					21
	FD 7.2 (3+0+2) – Textile Process and products		Vocational-3 (0+0+3): Advanced Garment Construction				
	FD 7.3 (0+0+2) Fashion Styling	Research Methodology (3)					
SE	Discipline core (DSC) (L+T+P)	Discipline Elective (DSE) Open Elective (OE)	Ability Enhancement Compulsory courses (AECC), Languages (L+T+P)		Skill Enhancement Courses (SEC)		Total Credits
					Skill Based (L+T+P)	Value based (L+T+P)	
VIII	FD 8.1 (3+0+2) – Advanced Portfolio	FD E-4(3+0+0): Logistics & Supply Chain Management in Apparel Industry/ Digital Marketing					20
	FD 8.2 (3+0+0) – Design Thinking		Vocational-4 (0+0+3): Fashion Journalism & Photography				
		Research Project (6)					

Award of B.Sc. (Honors) in Fashion and Apparel Design (185 credits)

***In lieu of the research project, two additional elective papers/ internship may be offered**

- 1 Credit in theory is equal to 1 hour of lecture per week.
- 1 Credit in Practical is equal to 2 hours of practical hours per week.
- 3 Credits of theory is equal to 3 lectures hours per week.
- 2 Credits of Practical is equal to 4 hours of practical per week. □ 3 Credits of Practical is equal to 6 hours of practical per week.

PRACTICAL TRAINING AND PROJECT REPORTS:

1. **Internship:** Students must undergo in house training in related R & D institutions, industries and a report shall be prepared under the supervision of one of the staff members and submitted during the course of the study. The duration of the internship will be for 4-6 weeks. The internship work will be undertaken immediately after IV semester and V semester vacation and the report to be submitted in VI semester for evaluation. Internal assessment will be evaluated by internal guide. Report completed in internship shall be evaluated for by internal and external examiners.
2. **Research Project:** In the 8th semesters each student shall undertake project work and prepare project report and portfolio strictly in accordance with the guidelines in their respective area under the supervision of an internal guide. The students are required to maintain a project work diary to be submitted for evaluation. The project report must be submitted before the commencement of eighth semester examination, failing which the student shall not be permitted to appear for the examination Project report completed during the semester will be evaluated by internal and external examiner.
3. **Craft Documentation:** Craft documentation shall be carried out in any Textile, fashion or craft cluster or related organisation with complete documentation of the process and Procedure supported with photographs. The duration of the project will be 4-6 weeks. The reports shall be prepared under the supervision of one of the staff members and submitted in VI semester for evaluation.
4. **Industrial/ Field Visits:** Candidate shall make no less than two Industrial/ fields visit to different organisations in each semester.

PROGRAMME OUTCOMES, EXIT OPTIONS AND JOB OPPORTUNITIES

A) Name of the Degree: B.Sc. (Basic/Honors)

B) Specialization: Fashion and Apparel Design

Programme Specific Objectives (PSO)

1. To empower students to have satisfying and fruitful career in fashion industry.
2. To equip students with knowledge of design & creativity which would in turn help them pursue higher education.
3. To empower Students with ample Knowledge to set up new start-ups or Self-help groups.
4. To encourage entrepreneurial skills and technical knowledge for national and international fashion centres and apparel industry
5. To provide an understanding of Fashion and Apparel Design in relation to the needs of fashion, textiles, apparel furnishings, home textiles, and the business products.
6. To provide hands-on experience using a set of complex technologies found in industry today to build prototypical solutions to solve current needs.
7. To provide experience in responding to market opportunities with creative and innovative products that integrate a set of academic disciplines such as fashion, textile materials, design fundamentals, business fundamentals, sourcing, data mining of market information, and new developments in fashion and apparel industry.

Programme Outcome (POS)

On completion of B.Sc. FAD Programme, the students will be able to

PO1: Gain knowledge of the fundamental principles of fashion, apparel, and garment designing to develop and produce deliver finished products.

PO2: Basic and discipline specific knowledge: Apply knowledge of basic designing, pattern making and apparel construction for fashion industry

PO3: Problem analysis: Identify target consumers, study economic conditions, standard of living, and design the garments as per their need.

PO4: Design/ development of solutions: Specify and design the styles for advanced garments, analyse and evaluate methodology and create mass & high fashion garments.

PO5: Modern Tools, Experimentation and Testing: Select advanced industrial sewing machine, CAD software, Modern cutting techniques needed for modern methods of production

PO6: Best practices for society, sustainability, and environment: Work in team using artistic endeavours and environment to achieve project objectives.

PO7: Project Management: Analyse modern management and communicate various apparel construction techniques to complete the project.

PO8: Life-long learning: Pursue lifelong learning as a means of enhancing the knowledge and skills. Recognize the professional and personal responsibility of Designers to the community.

PO9: Identify and analyse the constant change and new trends in fashion to overcome the problems in usage of garments.

PO10: Creative application of design to understand and learn about techniques that impact fashion and apparel production to meet specific demands of the consumers considering the health, safety, cultural and comfort issues.

PO11: Apply logical thinking gained from knowledge acquired through fashion and apparel design

PO12: Create global design products utilising knowledge of new technology and sustainability in Fashion.

PO13: Comprehend sustainability in their design aesthetic and design sustainability

PO14: Develop entrepreneurial spirits through start-ups to function independently to promote their design vision through creative and innovative work.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Understand the nature and basic concepts of designing and apparel construction for industry and business.

PSO2: Perform procedures as per laboratory standards in Boutique and Clothing Industry.

PSO3: Demonstrates understanding of integrating conceptual, technical, design and production knowledge and skills, leading to synthesis of the design process from concept to production.

PSO4: Apply knowledge and skills in the use of basic tools, techniques, and processes sufficient to produce work from draft or specification to finished products, including skills in portfolio presentation.

PSO5: Employ research processes and practise employed in fashion Industry.

PSO6: Articulate conceptual and critical thinking applicable to fashion industry.

PSO7: Research through enquiry, exploration and investigation using multiple design, commercial and cultural resources.

PSO8: Ability to evaluate Critique selected sources to deepen the understand of fashion design related to a specific fashion and apparel market.

PSO9: Informed decision making and contributions to industry by synthesising knowledge.

PSO10: Application of creativity, strategy and practical principles and techniques involved in design and development within fashion contour.

PSO11: Articulation and communication through personal and visual language, the aesthetic awareness of materials, brands, form, and processes at specified market level.

PSO12: Awareness of issues affecting economical sound and sustainable outcomes in relation to the fashion contour and lifestyle industries.

Career Opportunities

Studying fashion & apparel design will lead to career advancement opportunities in fashion and apparel industry. Fashion design programs teach students the skill, design creativity and technology to succeed in competitive fashion world. The students need to achieve the required level of education in fashion and apparel design course and be motivated enough to push on through various challenges in their career path that are likely to arise as follows with specific job opportunities based on acquired skills in learning.

Sl. No.	Job Opportunities
01	Jr. Quality checker
02	Shop floor assistant
03	Sales assistant
04	Teacher
05	Merchandiser
06	Fashion Designer
07	Fashion Entrepreneur
08	Fashion Photographer
09	CAD Designer
10	Fashion Stylist
11	Fashion Journalist
12	Fabric Designer
13	Quality control Manger
14	Fashion Illustrator
15	Weaving Designer
16	Quality control Manger
17	Fashion Illustrator
18	Fashion Photographer
19	Fashion Choreographer
20	Visual Merchandiser

21	Costume Designer
22	Product Designer
23	Fashion Academician
25	Fashion Entrepreneur
26	Visual Merchandiser
27	Textile Consultant
28	Fabric consultant
29	Fashion Communicator
30	Fashion Icon
31	Fashion Model
32	Image consultant
33	Fashion Blogger
34	Fashion advertising
35	Fashion Creative writer
36	Floor Managers
37	Interior fabric designer
38	Design consultant
39	Freelancer
40	Couture Designer
41	Fashion Buyer
42	Fashion Editor
43	Fashion Consultant

Course Details 1C Model

COURSE DETAILS OF B.Sc. FAD B.Sc. Honors in FAD							
Sem	Course code	Category of course DSC/OE	Theory/ Practical	Credits	Paper Title	Marks	
						SA	IA
I	FD T 1.1	DSC	Theory	3	Textile Science	60	40
	FD P 1.1	DSC	Practical	2	Textile Science	25	25
	FD T 1.2	DSC	Theory	3	Fundamentals of Fashion Design	60	40
	FD P 1.2	DSC	Practical	2	Fundamentals of Fashion Design	25	25
	FD P 1.3	DSC	Practical	3	Basics of Pattern Making and Garment Construction	50	50
	FD OE 1	OE	Theory	3	Textiles and Costume of India / Fashion Image Management	60	40
TOTAL						500	
II	FD T 2.1	DSC	Theory	3	Dyeing & Printing in Textiles	60	40
	FD P 2.1	DSC	Practical	2	Dyeing & Printing in Textiles	25	25
	FD T 2.2	DSC	Theory	3	Fashion Design & Illustration	60	40
	FD P 2.2	DSC	Practical	2	Fashion Design & Illustration	25	25
	FD P 2.3	DSC	Practical	3	Garment Detailing -I	50	50
	FD OE 2	OE	Theory	3	Clothing Care & Maintenance / Boutique Management	60	40
TOTAL						500	
III	FD T 3.1	DSC	Theory	3	Fashion Art & Design	60	40
	FD P 3.1	DSC	Practical	2	Fashion Art & Design	25	25
	FD T 3.2	DSC	Theory	3	Garment Detailing -II	60	40
	FD P 3.2	DSC	Practical	2	Garment Detailing -II	25	25
	FD P 3.3	DSC	Practical	3	Apparel Computer Aided Design	50	50
	FD OE 3	OE	Theory	3	Fashion Makeover / Jewellery Designing	60	40
TOTAL						500	
IV	FD T 4.1	DSC	Theory	3	World Textiles & Costumes	60	40
	FD P 4.1	DSC	Practical	2	World Textiles & Costumes	25	25
	FD T 4.2	DSC	Theory	3	Textile and Apparel Testing	60	40
	FD P 4.2	DSC	Practical	2	Textile and Apparel Testing	25	25
	FD P 4.3	DSC	Practical	3	Apparel Production	50	50
	FD OE 4	OE	Theory	3	Fashion Merchandising / Home Textiles	60	40
TOTAL						500	

V	FD T 5.1	DSC	Theory	3	Fashion Accessories	60	40
	FD P 5.1	DSC	Practical	2	Fashion Accessories	25	25
	FD T 5.2	DSC	Theory	3	Apparel Quality Management	60	40
	FD P 5.2	DSC	Practical	2	Apparel Quality Management	25	25
	FD P 5.3	DSC	Practical	3	Draping & TR cutting	50	50
	FD E 5.4	DSE	Theory	3	Fashion Forecasting & Trend Analysis / Entrepreneurship in Fashion	60	40
	FD V 5.7	Vocational	Practical	3	Needle Craft & Value Addition	50	50
TOTAL						600	
VI	FD T 6.1	DSC	Theory	3	Fashion Retail Marketing & Visual Merchandising	60	40
	FD P 6.1	DSC	Practical	2	Fashion Retail Marketing & Visual Merchandising	25	25
	FD T 6.2	DSC	Theory	3	Fashion Business Management	60	40
	FD P 6.2	DSC	Practical	2	Fashion Business Management	25	25
	FD P 6.3	DSC	Practical	3	Fashion Portfolio	50	50
	FD T 6.4	DSE	Theory	3	Apparel Costing/Export Documentation & Trade	60	40
	FD V 6.5	Vocational	Practical	3	Craft Documentation or Internship	50	50
TOTAL						600	
VII	FD T 7.1	DSC	Theory	3	Apparel Technology	60	40
	FD P 7.1	DSC	Practical	2	Apparel Technology	25	25
	FD T 7.2	DSC	Theory	3	Textile Process and products	60	40
	FD P 7.2	DSC	Practical	2	Textile Process and products	25	25
	FD P 7.3	DSC	Practical	2	Fashion Styling	25	25
	FD E 7.4	DSE	Theory	3	E-Commerce in Fashion / Professional Ethics in Image Building.	60	40
	FD V 7.5	Vocational	Practical	3	Advanced Garment Construction	50	50
	FD T 7.6	DS RM	Theory	3	Research Methodology	60	40
TOTAL						650	
VIII	FD T 8.1	DSC	Theory	3	Advanced Portfolio	60	40
	FD P 8.1	DSC	Practical	2	Advanced Portfolio	25	25
	FD T 8.2	DSC	Theory	3	Design Thinking	60	40
	FD T 8.3	DSE	Theory	3	Logistics & Supply Chain Management in Apparel Industry / Digital Marketing	60	40

	FD V8.4	Vocational	Practical	3	Fashion Journalism & Photography	50	50
	FD P8.5	DSRP	Practical	6	Research Project	100	100
TOTAL						650	

* 60 marks of the summative assessment maybe subdivided or re changed as 40 marks for summative assessment and 20 marks for experienced learning based on group discussion case study industrial visit market survey visit to the exhibition and submission of the report for the same by the student.

I Semester B.Sc. Textile Science (Theory)

Title of the course: B.Sc. Fashion and Apparel Design

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semesters
3	42	2	56
Content of Theory Course 1			
<p>Course Outcomes: On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Understand characteristics and use of common textile fibres. • Analysis of the basic components of fibres and their relationship to performance. • Learn fibres, yarns, methods of fabric construction of fabric. • Understand performance and the determination of fabric suitability for apparel □ Learn about different variety of fabrics and understand fabric structures. • To identify different fabrics, Designing and drafting plan for weaves. 			
Unit – 1			
<p>Chapter 1 Introduction to Textile fibers, terminology, textile yarn, staple & filament, sources and classification of fibers Natural Fibers- General and chemical properties and end use.</p> <ul style="list-style-type: none"> - Cellulose fibres- Cotton, Flax, Linen - Protein fibres- Silk, Wool - Regenerated Cellulosic fibres- Viscose, acetate rayon, modal, bamboo. Lyocell, banana fibre. 			4
<p>Chapter 2 Synthetic Fibers – General and chemical properties and end use. - Nylon, polyester, acrylic, modacrylic, polypropylene - Elastomeric fibres (spandex & Lycra).</p>			4
<p>Chapter 3 Polymers- Definition, polymerization, degree of polymerization, different types of polymers- addition and condensation, orientation, and crystallinity.</p>			4

Unit -2	
<p>Chapter 4 Spinning- Definition, types, yarn-ply-2 ply, 3 ply. Thread yarn twist and yarn count system. Spinning process- Ring and open end, Compact Yarn, Air jet spinning and difference between rotor and ring spinning. Woollen and worsted yarn, flow chart for manufacturing of carded, combed and twisted yarn, advantages.</p>	6
<p>Chapter 5 Blends- Definition, types, advantages and end use of blended yarn P/C, P/V, P/W, W/V.</p>	2
<p>Chapter 6 Fancy yarns- Types, properties, and end use, texturization. Types (simple and complex yarns) properties and end use. Sewing threads- types, properties and end use.</p>	2
Unit -3	
<p>Chapter 7 Introduction to fabrics- classification based on manufacturing technology. Methods of Fabric formation- woven, knitted and nonwovens. Fabric properties & end use. Geometrical properties and their importance yarn count, thread density, fabric width/ Thickness, fabric weight, GSM</p>	8
<p>Chapter 8 Woven fabric formation -Flow chart of woven fabric manufacture and objectives. Weaving preparatory, objectives and study of process-winding, warping, sizing, drawing, and denting and weft winder. Introduction to loom- classification, working principle. Study of primary, secondary, and tertiary motion. Classification of woven fabrics-Hand loom & power loom. Elementary weaves Simple and compound woven structure- Classification of looms and their salient features. Classification of woven fabrics and their characteristics. Characteristic of basic and simple structures. Classification of weaves, characteristics, construction, salient features of Plain weave, variation (Rib, Basket) Twill weave- variation (RHT, LHT, pointed & herring bone) Satin/ sateen weave-variation, fabric design and graphical representation of the above-mentioned weaves. Introduction, properties, and salient features of crepe fabrics- Georgette, chiffon, extra threads, warp and weft pile, brocade & damask, terry pile structures.</p>	8
<p>Chapter 9 Introduction to knitting- Terminology, classification. Warp and weft knitting Single jersey rib, interlock, and purl, modified single jersey. Properties and end use. Introduction to nonwovens- terminology, types-needle punch, spun bonding, felting technique. Applications and end use.</p>	4

References

- Bernard P. Corbman, “Textiles: Fibre to Fabric”, McGraw Hill Education, 6th edition, 1985.
- Billie J. Collier, Phyllis G. Tortora, “Understanding Textiles”, Pearson, 6th edition, 2000.
- Gohl E.P.G. Velensky, L.D, “Textile Science” CBS Publishers and Distributors, 2nd edition, 2005.
- Gordon Cook J, “Hand Book of Textile Fibres”, Woodhead Publishing, 5th revised edition, 1984.
- Gilbert R. Merrill, “Cotton Opening and Picking”, Universal Publishing Corporation, 1999.
- Hall A.J., “The standard Hand Book of Textiles”, Wood Head Publishing, 8th edition, 2004

I Semester B.Sc Textile Science (practical)

Textile Science practical		
No. of practical Credits - 2	Number of practical hours - 56	
Course Outcomes: On successful completion of the course, students will be able to		
<ul style="list-style-type: none"> • Identify fibres, sources, and their properties. • Provide students with the knowledge of yarn science and their properties • Demonstrate knowledge of textiles and application of skills in the product development. • Analyse compatibility of fabric to meet performance criteria of textile. 		
Unit 1		6
Identification of different fibers by physical method - feel test, burning test, microscopic test and chemical method - solubility test Natural fibers - Cotton, Silk, Wool. Man-Made - Polyester, Viscose, Nylon		
Unit 2		6
Determination of Yarn Twist and Yarn Count. Determination physical properties of Sewing thread – No. of ply, yarn twist, yarn count, yarn defect, visual inspection of various sewing thread packages. Identification of yarns by physical method – Spun, Filament yarns, ply and novelty yarns.		
Unit 3		12
Determination of Geometric parameters of woven fabric – Thread count - EPI/PPI, Thread Density, Cover Factor, Crimp%, Fabric thickness, Fabric Weight/GSM, and Aerial Weight, Ends per inch, picks per inch, warp & weft count, GSM, Thickness, width count.		

Unit 4	16
Sample Development of 5x5 inch size Woven sample for the weaves – plain and its variation (Rib and Matt weave), Twill weave (RHT and LHT), Satin and Sateen with drafting and denting plan for all weaves.	
Unit 5	8
Collection and portfolio preparation of different commercial samples with different Weave structures - Organdy, muslin, taffeta, shantung, canvas, tweed, oxford shirting, monk's cloth, chiffon, georgette, seersucker, denim, gabardine, satin, sateen, brocade, damask, leno, or gauze. Knit structures - single knits - single jersey, Lacoste, double knits - rib knit, purl knit, interlock knit, cable fabric, bird's eye, cardigans, Milano ribs, pointelle. Non-Woven - Felts, Needle Punch, Tea bag paper, Face cloths, Shingling and Synthetic fiber paper	
Unit 6	6
Collection and development of fabric portfolio of the different commercial samples with different weaves and weight. A) Apparel - Women's wear (formal, casual, party, sports/active wear, leisure wear)- 4 samples for each category (sample size - 2x2 inch). B) Furnishing - Fabric used for curtains, upholstery (furniture cover cloth) (sample size - 4x4 inches). C) Household application - Kitchen towels. Mop cloth, carpets, and tablecloth etc. - 2 samples for each category (sample size 4 x 4 inches). D) Support materials for garments and trims - Interlinings, linings, tapes, elastic, shoulder pad, etc.	

I Semester B.Sc. Fundamentals of Fashion Design (Theory)

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semesters
3	42	2	56
Theory			
<p style="text-align: center;">Course Outcomes: On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Basic principles and techniques of fashion design. • Learn all the fashion terminologies. • Understand the principles of colour theory and their application. • Develop a skill for drawing basic croqui and basic sketching. 			
Unit – 1			
<p>Chapter 1 Fashion –Introduction, Terminologies: Fashion, Style, Taste, Trend, Fad, Classics, Cycle, Boutique, Haute Couture, Designer, Prêt A Porter, Silhouette - Types of silhouettes – Natural Body, Slim line, Wedge, Hourglass, Extreme Volume Silhouette, Croqui, Muse, Knock off, Avant Garde, Toile, atelier, bespoke, Collage, Frottage, Montage.</p>			4
<p>Chapter 2 Design - definition and types – structural and decorative design - Natural/ Geometric/ Abstract/ Stylized/ Ethnic/ Conventional, Requirements of a good structural and decorative design, Application of structural and decorative design in a dress, selection and application of trimmings and decorations.</p>			4
<p>Chapter 3 Elements of design – line, shape or form, colour, size, and texture. Principles of design- Balance – formal, informal, and Radial, rhythm- through repetition, radiation and gradation, emphasis, harmony, and proportion. Advantages and uses in fashion</p>			6

Unit -2	
<p>Chapter 4 Art Media and Application – Pencils, Colour Pencils, Oil Pastels, Water Colour, Poster Colors, Acrylic Colors, Fabric Colors, Markers.</p>	2
<p>Chapter 5 Colour- Introduction, Colour wheel - primary, secondary and tertiary. Colour Dimensions-Hue, Value and Chroma, Tint, tone, shade, Colour harmony- Related & contrasting colour harmonies & its subdivisions. Colour Theory - Prang colour system & Munsell. Colour Psychology - Colour and Emotions, Indian Approach to Colour).</p>	6
<p>Chapter 6 Basic sketching techniques and sketching from life, Perspective, and its uses,</p>	6
<p>Grid technique of rendering. Principles of composition Principles of composition using grids, symmetrical/ asymmetrical, Rule of Thirds, Center of Interest, and Gestalts Theory of Visual Composition.</p>	
Unit -3	
<p>Chapter 7 Introduction to Anatomy, Study of Bone and Muscular Structure, Proportions of Males, Females and Children. Study of Face, Torso, Legs and Arms</p>	6
<p>Chapter 8 Introduction to Fashion Art, Proportion and the Fashion Figure- 8 head, 10 head, 12 head theory of fashion drawing</p>	5
<p>Chapter 9 Theory of Clothing Origin, Fashion cycle, Length of cycle, Fashion theories– Trickle up, Trickle down and Trickle across, Consumer identification with fashion life cycle – fashion leaders/ Style Icon/ followers/ innovators/motivators/ victims, Fashion for creative and artistic, Principles of Fashion, International Major Fashion Centres. Principles of Fashion movement: Factors influencing fashion movement - Accelerating factors, retarding factors, and Recurring fashions. Predicting the movement of fashion.</p>	7

References

- Elisabetta Drudi, Tiziana Paci, “Figure Drawing for Fashion Design”, Pepin Press Publication, 2002
- Gavin Ambrose, Paul Harris, “The Visual Dictionary of Fashion Design”, Bloomsbury Publishing India Private Limited, 2007.
- James Stockton, “Designers Guide to Colour”, Chronicle Books, San Francisco, 1984.
- Maier, Manfred, “Basic Principles of Design”, Van Nostrand Reinhold, 1980.
- Sharon L Tate, Mona S Edwards, “Inside Fashion Design”, Pearson Education India, 2006.
- Stanyer Peter, “The Complete Book of Drawing Techniques”, Arcturus Publishing

I Semester B.Sc Fundamentals of Fashion Design (practical)

Fundamentals of Fashion Design practical		
No. of practical Credits - 2	Number of practical hours - 56	
<p>Course Outcomes: On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Learn basic of sketching with different colour schemes and modes • Practice Dimensional sketching and colouring • Understanding colour patterns and combination. 		
Unit 1		6
Introduction to art media and its applications, Line Sketching and Painting techniques, Object Drawing, Simple rendering of art materials using pencil and colour pencils, Still life of simple objects and fabrics draped at a distance using wet media, Nature sketch of flowers and leaves using pastels and charcoal, Landscape painting using mix media.		
Unit 2		10
Free hand drawing and Grid technique of Rendering. Design: Natural/ Geometric/ Abstract/ Stylized/ Conventional. Principles of Perspective Drawing - Horizon, vanishing points, landscape drawing. One point, two point and three-point perspective drawing.		
Unit 3		8
Elements of design: Point, Line, Shape, Space, Color and texture.		

Unit 4	
Principles of Design- Proportion, Balance, Rhythm, Emphasis and Harmony.	8
Unit 5	10
Colour Theory - Prang colour system & Munsell. Colour wheel - primary, secondary, and tertiary. Colour Dimensions-Hue, Value and Chroma, Tint, tone, shade, Colour harmony-Related & contrasting colour harmonies & its subdivisions	
Unit 6	14
Fashion Illustration: Stick, Block and Fleshing of the Fashion figure- 8 head, 10 head, and 12 head figures in simple standing poses.	

I Semester B.Sc Basics of Pattern Making and Garment Construction (0+0+3)

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semesters
NA	NA	3	84
Practical			
<p style="text-align: center;">Course Outcomes: On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Classify sewing machines and understand their functioning. • Understand and learn pattern making techniques • Learn basic pattern making terminologies. • Construct basic pattern set and learn anthropometric study. 			
Unit – 1			
<p>Chapter 1 Introduction to Pattern making, tools used for pattern making and garment construction - measuring tools, marking tools, cutting tools, sewing tools, pressing tools. Types of papers used for pattern making, papers of different GSM, its uses.</p>			8
<p>Chapter 2 History of sewing machine, domestic sewing machine, industrial sewing machine, stitch formation, difference between domestic and industrial sewing machine, sewing machine - Types, functions, attachments and uses. Sketching the basic sewing machine and parts and learning threading of single needle lock stitch machine, loading bobbin and bobbin case, fixing and removing the needle and care and maintenance of sewing machines. Stitching practice on paper and fabric (straight, curves, corners and circular).</p>			10
<p>Chapter 3 Demonstration of parts of a Sewing Machine, varieties of industrial sewing machines - single needle lock stitch machine, double needle lock stitch machine, chain stitch machines, over-lock machine, care and maintenance of sewing machine. Stitching Mechanism-needles, bobbin and bobbin case, bobbin winding, upper and cover threading, auxiliary hooks, throat plates, take up lever, tension disc. Feeding mechanism- drop feed, different feed, needle feed, compound feed, puller feed.</p>			10
Unit -2			
<p>Chapter 4 Demonstration on types of Sewing threads - function, performance, characteristics, causes of defects and remedies. sewing machine needles - types, parts and functions Stitch classification - ASTM Standards, stitch dimensions and properties.</p>			8

<p>Chapter 5 Development of basic hand stitches - Temporary and permanent stitches, methods, importance and applications of basting, running, tacking, hand overcast, chain, buttonhole, hemming stitches - plain and blind hemming. Machine stitches - Lock and over lock stitches. Seams - Definition, classification, ASTM Standards, seam and seam finishes, seam dimensions, SPI, Seam defects causes and remedies. Development of Machine stitches - seam and seam finishes - plain, flat fell, French, turned and stitched, lapped, double top, pinked, over lock, pinked and stitched. Stitch classification</p>	10
<p>Chapter 6 Introduction to pattern making techniques - Drafting, draping and flat pattern technique, advantages and uses. Pattern - Introduction, types of patterns - Commercial, custom made and made-to-measure patterns. Pattern making terminologies - Marks and symbols (notches, punch/circles,) pattern information (grain, part, piece, cut symbols) seam allowance, fabric terms (grain, bowing, skewing). Development of patterns using the above methods.</p>	8
Unit -3	
<p>Chapter 7 Anthropometric study - Body measurements, types of body measurements, body measuring method and standardization of body measurement. Demonstration and calculation of average measurement for mass production of taking body measurements, anthropometric study, average analysis of body measurements and standardizing the measurements (at least measurements of 20 people to be collected for an average analysis).</p>	10
<p>Chapter 8 To develop patterns and slopers for kids wear garment - Zabra, A - line frock, Waistline frock and bush shirt with shorts with elastic</p>	10
<p>Chapter 9 Design and development of long skirt and circular skirt.</p>	10

References	
□	Allyne Bane, "Flat Pattern Design", McGraw-Hill Inc. US, 1972.
□	Gerry Cooklin, "Introduction to Clothing Manufacture", Wiley-Blackwell, 2 nd edition, 2008.
□	Harold Carr & Barbara Latham, "The Technology of Clothing Manufacture", Oxford Publications, USA, 1994.
□	Helen J Armstrong, "Pattern Making for Fashion Design", Pearson Education India, 5 th edition, 2013.
□	Winfred Aldrich, "Metric Pattern Cutting", John Wiley & Sons, 3 rd edition, 1994

I Semester OE: Textiles and Costumes of India

Total Teaching Hours = 45; Total Credits= 3

SOL (Specific Objective Learning):

The students will gain knowledge in Historical textiles and Designs starting from the evolution to human to till date. The students will gain knowledge on traditional woven textiles of different states of India. They will even learn about the Traditional costumes of different states of India spread on varied region and diversity.

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semesters
3	45	NA	NA
Content of Open Elective Theory Course			
Unit 1 Textiles and costumes of India- Introduction, History, types, motifs and symbols, prehistoric textiles and costumes- costume components for men, women and children, hair and hair dresses. Indus Valley Civilization, Vedic age, Mughals, Guptas.			7
Unit 2 Ancient Indian Textiles and costumes History and social life, costumes, Jewelry, textiles and dyes- Indus valley, Vedic, Mauryan, sahatavana period, Kushans, Gupta and Mughals.			7
Unit 3 Northern traditional textiles Traditional Woven textiles of North states of India – Brocades of Banaras, Chanderi and Tanchoi, Maheshwari. Traditional Costumes of North India – Jammu & Kashmir, Punjab, Himachal Pradesh, Haryana, Uttaranchal and Uttar Pradesh.			8
Unit 4 Southern traditional textiles Traditional woven textiles of Southern states of India – Paithani and Pitamber, Pochampalli, Kancheevaram, Himrus, Kalamkari, Pipli, Mysore silk, Aarni Silk. Traditional costumes of Southern states of India – Tamil Nadu, Kerala, Karnataka and Andhra Pradesh.			8
Unit 5 Eastern traditional textiles Traditional woven textiles of Eastern states of India – Dacca muslin,			8

Applique work of Bihar, Balucheri, Jamdhani
Traditional costumes of Eastern states of India – West Bengal, Bihar,
Jharkhand, Arunachal Pradesh, Assam, Sikkim, Nagaland, Manipur, Mizoram,
Meghalaya and Tirupura

Unit 6

Western textiles

Traditional woven textiles of Western states of India – Maheshwari sarees of Madhya Pradesh, Patola, Bandhini and Amrus.

Traditional costumes of Western states of India – Rajasthan, Gujarat,
Maharashtra, Madhya Pradesh, Chhattisgarh and Goa.

References

- John Gillow & Nicholas Barnad, “Traditional Indian Textiles”. Thames & Hudson, 1993
- Martand Singh, “ Saris’ of India – Bihar & West Bengal”, Wiley Eastern Ltd. 1993
- Rta Kapur Chishti & Amba Sanyal, “Saris of India – Madhya Pradesh,” Wiley Eastern Ltd. 1989
- Roshen Alkazi, Ancient Indian Costume, Art Heritage (1983)
- Ritu Kumar ,Costumes and textiles of Royal India –Published by Christie’s Books.
- Karen Baclawski, The Guide to Historic Costumes, Drama Publishers (1995).
- Dr. Parul Bharnager Traditional Indian costumes & textiles”, Abhishek Publication.
- Jamila Brij Bhusan “The Costumes and textiles of India”, Taraporevala – Bombay

I Semester
OE: Fashion Image Management
Total Teaching Hours = 45; Total Credits= 3

SOL (Specific Objective Learning):

It helps the student to develop the skills in dressing and self-grooming. It also helps them in identifying the right clothing and behavior on various occasions like attending interview, Business meetings, and Group decisions. It helps the student to purchase clothing based on their personality and helps them to wear specific clothes based on occasion.

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semesters
3	45	NA	NA
Content of Open Elective Theory Course			
Unit 1 Introduction to Fashion Styling – Influence of stylists, specialties of styling, areas of styling, misconceptions about styling, personality traits of a successful stylist.			7
Unit 2 Image Management – Image management process, styling for print, editorial styling, lifestyle styling, fashion PR, styling for entertainment industry, wardrobe styling.			
Unit 3 Image building, branding & networking – portfolio, basics, image consulting, personal styling, celebrity styling, career diversity, runway styling, prop styling, food styling, visual merchandising.			7
Unit 4 Clothing etiquette- Introduction, importance, types, rules and dressing styles for women and men. Formal, informal, traditional and casual dressing etiquette’s.			8
Unit 5 Wardrobe Preparation- Anatomy of wardrobe department, duplicate costumes, green room understanding fabric care, fashion and season, designing dresses for different occasion – business meetings, parties/ dinners, evenings/leisure hours, marriage functions, sports, uniforms for civil service, airhostess, hoteliers, schools – girls and boys.			7
Unit 6 Freelance Styling – Basics of freelance styling, essential business documents, agency representation vs. freelance, building a freelance business plan, studio, office & financials.			8

References:
<ul style="list-style-type: none"> • Tate of Glession ‘Family clothing’, John wiley and sons Inc, Illinois □ Shannon Burns-Tran “Style wise” Fairchild books, • Elaine Stone, ‘The Dynamics of Fashion’ Fairchild. • Gini Stephens Frings, Fashion – concept to consumer, 9th edition, Pearson education Ltd., Harlow, 2014

II Semester B.Sc.
Dyeing and Printing in Textiles
Theory

Title of the course: B.Sc. Fashion & Apparel Design

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semester
3	42	2	56
Theory Course			
<p>Course Outcomes: On successful completion of the course, the students will be able to □ Learn and Practice the dyeing of textiles made by natural and synthetic fibres.</p> <ul style="list-style-type: none"> • Adapt the process parameters and use of dyeing machines for dyeing of textile materials. • Helps to select the dyes and recipe for preparation of printing paste for printing of textile materials. • Apply various finishing treatment process and treat the fabric with different finishing agent. 			
Unit – 1			
<p>Chapter 1 Introduction to wet processing - Terminologies, sequence of wet processing operations for cotton, silk and wool, synthetic fabrics.</p>			2
<p>Chapter 2 Preparatory and dyeing process of cellulosic fibers. Preparation - Singeing, desizing, scouring, bleaching, mercerization - objectives, recipe, machineries used and process. Dyeing - Dyeing process using direct, reactive, vat and sulphur dyes.</p>			5

<p>Chapter 3 Preparatory and dyeing process of protein fibers (wool and silk). Preparation for silk - Degumming and bleaching of silk - objectives, recipe, machineries used and process. Preparation for wool - Scouring, carbonizing of wool - objectives, recipe, machineries used and process. Dyeing - Dyeing process using reactive and acid dyes, reactive dyes, basic dyes.</p>	5
Unit -2	
<p>Chapter 4 Dyeing of synthetic fibers using disperse dyes. Dyeing - Method of dyeing - stock, yarn, piece, union and garment dyeing.</p>	5
<p>Chapter 5 Printing and printing procedure- Introduction, definition of printing styles and methods direct style- Block, stencil, screen, roller, duplex, rotary, transfer printing, discharge style, resist style- batik, tie and dye, Minor printing methods- Flocking, marbling, photo printing, warp printing and air brush printing.</p>	5
<p>Chapter 6 Finishes – Introduction, Definition, importance, classification of finishes- permanent and temporary finishes. Basic or routine finishes –Stiffening, Calendaring, weighing, tentering, mercerization. Aesthetic finishes- special calendaring, moiré embossed surface, glazed finish, acid and alkali finishes, and softening, fading finishes.</p>	6
Unit -3	
<p>Chapter 7 Functional finishes- Antimicrobial, antistatic, crease resistant, flame resistant, mothproof, shrinkage control, water repellent, waterproof, Micro encapsulation finishes, soil-release finishes.</p>	5
<p>Chapter 8 Stain removal, various solvents used and different methods of washing, difference between soaps and detergents. Chemical agents used in stain removal of coffee, blood, oil, grease, curry, juice, lip stick, hair dye. Care of Textiles & fabrics - Principles of laundering. Types - Hand wash, machine wash and dry cleaning.</p>	5
<p>Chapter 9 Environmental concerns and Social responsibility- Introduction to environmental issues- air pollution, water pollution, and solid waste pollution. Sustainability in the production of textile. Corporate social responsibility in textile industry</p>	4

References

- Hall A J, “The standard Hand Book of Textiles”, Woodhead Publication, 2004.
- Kate Broughton, “Textiles Dyeing”, Rockport Publishers Inc., 1996.
- Murphy W S, “Textile Finishing”, Abhishek Publishing, 2007.
- Smith J E, “Textile Processing - Printing, Dyeing”, Abhishek Publishing, 2003.
- Susheela Dantiyagi, “Fundamentals of Textiles and their Care”, Orient Black Swan, 1980.

- Wignate I B, “Textiles Fabrics & their Selection”, Prentice Hall, 6th edition, 1970.

II Semester B.Sc. Dyeing and Printing in Textiles Practicals

Dyeing and Printing in Textiles Practicals		
No. of practical Credits - 2	Number of practical hours - 56	
Course Outcomes: On successful completion of the course, the students will be able to		
<ul style="list-style-type: none"> • Gain practical knowledge on dying ratios • Learn textile printing. • Practice hand and machine printing. 		
Unit 1		4
Introduction to wet processing. Preparatory process - Desizing, scouring, bleaching and mercerization of cotton yarn/fabric		
Unit 2		9
Protein Fiber -Degumming and bleaching of silk/ Wool yarns/ fabric		
Unit 3		9
Dyeing of cellulosic yarn/fabric by direct, reactive and vat dyes.		
Unit 4		10
Dyeing of protein yarn/fabric by acid and reactive dyes.		
Unit 5		14
Printing of fabric using block and screen using pigment, reactive and direct dyes. Resist style of printing - Tie and dye/shibori/batik.		
Unit 6		10
Stain removal of oil, grease, blood, coffee and beverages		

II Semester B.Sc.

Fashion Design & Illustration Theory

Title of the course: B.Sc. Fashion & Apparel Design

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semesters
3	42	2	56
<p>Course Outcomes: On successful completion of the course, the Students will be able to □ Learn the fashion clothing categories.</p> <ul style="list-style-type: none"> • Develop a skill for drawing basic croqui with facial details. • Create stylized croqui for fashion illustrations. • Understand the design process of fashion forecasting and fashion research. • Learn sketching technique of flats and specs. 			
Theory Course			
Unit – 1			
<p>Chapter 1 Introduction to fashion illustration and brief history of fashion illustration. Study of well-known fashion illustrators (René Bouché, David Downton, Jason Brooks, Lorenzo Mattotti). The role of fashion illustration as a mode of expression and representation for contemporary apparel styles and trends.</p>			3
<p>Chapter 2 Fashion figure - Study of various proportions, balance line in drawing fashion figures, gestures and movements. 6½, 8 head, 10 head, 12 head figures, the fashion face, arms, legs, hands and feet.</p>			6
<p>Chapter 3 Figure analysis, body types - Hourglass, inverted triangle, pear shape, apple shape and lean column (rectangular) designing for diverse body types and ages - infant, toddler, children, young boys and girls.</p>			5

Unit -2	
<p>Chapter 4 Garment style features - Silhouettes - types of silhouettes, sleeves - set-in sleeve and bodice combination sleeves, dress and blouses - formal and casual, shirts - men and women, skirts - flared, pencil, circular, pegged, gored, trousers - pencil, pleated, bell bottom, cargo, flared, collars - shirt, shawl, mandarin, flat, peter pan, yokes - yoke with fullness, yoke without fullness, asymmetrical yokes, pockets - patch, welt, side, kangaroo, in-seam pocket, cuffs - single, double, pointed, French cuff, band cuff.</p>	5
<p>Chapter 5 Fashion clothing psychology - Political influence, Social influence, Environmental influence, Geographical influence, Cultural influence, Environment of Fashion, colour psychology, human behavior and clothing, clothing and gender differentiation, clothing and personality, clothing and</p>	5
<p>attitude, clothing and motivation, grooming (for male and female).</p>	
<p>Chapter 6 Fashion seasons – Introduction and terminologies- International market and Indian market, Design, Prototype, Manufacturing, Product Launch, Retail store, Couture, RTW, Mass produced, Fashion Designer, Stylist, Fashion Journalist, Fad, Fit, Pattern, Size label, Care label, Laundering, Fashion Shows, Catwalk, Fashion Magazines, Webzines, Social Media, Lingerie, Longue wear, Fragrance, endorsement, Model, Mannequin, Merchandise. Season: Winter, summer, Spring Autumn.</p>	4
Unit -3	
<p>Chapter 7 Fashion Designer Study - Indian fashion designers- Sabyasachi Mukherjee, Ritu Kumar, Ritu Beri, JJ Valaya, Wendell Rodrick's, Raghavendra Rathod, Manish Malhotra, Shyamal & Bhumika, and their brands based on following criteria: - Introduction of the Designer, Education, Specialty, Brand / label, Contribution to Fashion, Product range, Outlets, Collection Showcase. Fashion Brands, Fashion capitals, Fashion Icons and Role of Fashion in Movies, Sports, and Politic.</p>	5
<p>Chapter 8 Fashion Designer Study- International fashion designers- Christian Dior, Gianni Versace, Coco Chanel, Donna Karan, Calvin Klein and their brands based on following criteria: - Introduction of the Designer, Education, Specialty, Brand / label, Contribution to Fashion, Product range, Outlets, Collection Showcase. Fashion Brands, Fashion capitals, Fashion Icons and Role of Fashion in Movies, Sports, and Politic.</p>	5
<p>Chapter 9 Fashion clothing categories - Introduction, Types, based on age and activity, styling, price and size ranges for mens , women's and kid's wear.</p>	4

References

- Bina Abling, "Fashion Sketchbook", Bloomsbury Academic USA, 6th edition, 2015
- Jaeil Lee, Comitte Steen, "Technical Source Book for Designers", Bloomsbury Academic USA, 2nd edition, 2015.
- John Wiley, "Theory of Fashion Design" John Wiley and Sons. Inc, New York, 1990.
- Patrick John Ireland, "Fashion Design Illustration - Children", Batsford, London, 1996.
 - Patrick John Ireland, "Fashion Design Illustration - Women", Batsford, London, 1996.
- Peacock J, "Fashion Source Books", Thames and Hudson, London, 1998.
- Stecker P, "The Fashion Design Manual", Macmillan, Australia, 1997.

II Semester B.Sc. Fashion Design & Illustration Practicals

Fashion Design & Illustration Practicals		
No. of practical Credits - 2	Number of practical hours -56	
<p>Course Outcomes: On successful completion of the course, the Students will be able to □</p> <p>Understand the use of textures on various fabrics.</p> <ul style="list-style-type: none"> • Sketch human figures and understand shapes and features. • Develop folio with design concepts inspired designers. 		
Unit 1		6
Fashion Illustrations - 6½, 8 head, 10 head, and 12 head fashion figures - standing, moving and action.		

Unit 2	8
Model drawing - Children, female and male figures. Body figures and features - Face, eyes, nose, lips, ears, arms and legs. Hair styling - Women/men basics.	
Unit 3	9
Fabric rendering - Learning to simulate textures of various fabrics - Cotton, silk, fur, net, leather, velvet, denim, corduroy, georgette, chiffon, knitted, crochet, lace, embroidered and printed.	
Unit 4	9
Sketching and rendering of garment features - blouses - formal and casual, shirts - men and women, skirts - flared, pencil, circular, pegged, gored, trousers - pencil, pleated, bell bottom, cargo, pedal pushers, collars - shirt, shawl, mandarin, flat, peter	
pan, yokes - yoke with fullness, yoke without fullness, pockets - patch, welt, side, kangaroo, in-seam pocket, cuffs - single, double, pointed, French and band cuff, sleeves - set-in sleeve and bodice combination sleeve.	
Unit 5	14
Development of folio with design concepts inspired by one Indian Designer - Sabyasachi Mukherjee, Ritu Kumar, JJ Valaya, Wendell Rodrick's, Raghavendra Rathod, Manish Malhotra, Bhumika, Shyamal.	
Unit 6	10
Development of Folio with design concepts inspired by one International Designer - Christian Dior, Gianni Versace, Coco Chanel, Donna Karan, Calvin Klein.	

**II Semester B.Sc.
Garment Detailing-I
Practicals**

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semester
NA	NA	3	84
<p>Course Outcomes: On successful completion of the course, the students will be able to</p> <ul style="list-style-type: none"> • Apply knowledge about industrial method of pattern making, grading and marker plan • Understand about garment sizes and categories • Distinguish handling of special fabrics for garment construction. • Learn minor and major garment construction. 			
Theory Course			
Unit – 1			
<p>Chapter 1 Preparation of basic block - Pattern set (bodice front, back, sleeve, skirt - front and back), development of Basic Block</p>			6
<p>Chapter 2 Flat pattern technique - Introduction, types, application and uses (pivot and slash technique), development of Samples</p>			10
<p>Chapter 3 Fullness - Introduction, types of fullness, application and uses, development of Samples Garment detailing - Dart manipulation - single dart and double series. Conversion of darts to tucks pleats, gathers, and seamlines. Radiating and graduating darts.</p>			10

Unit -2	
<p>Chapter 5 Major components - Introduction, definition, terms, application, classification and types, development of Samples Collars - Definition, terms, classification and types - Peter pan, sailor, turtle collar, shawl, formal shirt collar, mandarin collar and with its variations - construction. Yokes - Definitions, purpose, types - with fullness and without fullness, shapes - construction</p> <p>Chapter 6 Minor components - Introduction, definition, terms, application, classification and types, development of Samples Pockets - Definitions, purpose, types - patch pockets, patch pockets with flap, seam pockets, welt pockets and variations. Cuff - Definitions, purpose, types – single, double and shaped cuff. Plackets - Definition, types - self placket, continuous bound placket, two piece sleeve placket and shirt placket. Neck line finishes - Definition, types - piping, facing (bias facing, shaped facing) bias binding.</p>	<p>15</p> <p>10</p> <p>10</p>
Unit -3	
<p>Chapter 7 Demonstration of Garment categories - Silhouettes - variations, torso dress, princess line, panel, with waistline, without waist line garments. Trims Definition, types- Bias trimming, ricrac, ruffles, embroidery, smoking, faggoting, applique, lace, lace motifs, scallop edging, decorative fastenings. Development of Folio.</p> <p>Chapter 8 Incorporation of Garment closures on samples - Introduction, types - Hook and eye, press buttons, shirt button and button holes, visible and concealed zippers, Velcro.</p> <p>Chapter 9 Develop a garment for women using major and minor components</p>	<p>8</p> <p>6</p> <p>8</p>

References

- Elizabeth Liechty, Judith Rasband, "Fitting and Pattern Alteration", Bloomsbury Academic USA, 2016.
- Helen J Armstrong, "Pattern Making for Fashion Design", Pearson, 5th edition, 2009.

- Martin M Shoben, Patrick J Taylor, "Grading for the Fashion Industry", LCFS Fashion Media, 2004.
- Natalie Bray, "Dress Fitting - Basic Principles and Practice", BSP Professional Book Publishers, 2nd edition, 1991.

Patric Taylor, "Grading for the Fashion Industry", Stanley Thomas Ltd., 1990.

II Semester
OE: Boutique Management
Total Teaching Hours = 45; Total Credits= 3

SOL (Specific Objective Learning):

By learning this subject, the students will know how to plan and organize a store, gain knowledge in interior and exterior decoration, know how to visually merchandize the fashion product. They will have knowledge in different fashion brands and organize commercial shows like trade show, fashion show and exhibitions.

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semester
3	45	NA	NA
Content of Open Elective Theory Course			
<p>Unit 1 Introduction to Boutique Management and terminologies. Fashion Retailing- History, scope, Importance, Types of retailing (Domestic & International), Boutique market place and its role.</p>			7
<p>Unit 2 Business options and plans for boutique. Costing and funding agencies. Boutique display, exterior of boutique, Illumination, masking and proscenia Mannequins and 3d dressing, props and promotions on floor.</p>			7
<p>Unit 3 Boutique Interior planning- Boutique interiors and display, locations, fixtures and dressings, purchase systems. Boutique management-types of boutique, planning, layout and storing.</p>			8
<p>Unit 4 Fabric sourcing- introduction, types, markets- domestic and international buying. Inventory control-definition, types, importance, remedies. Buying for boutique, pricing merchandise, and hiring.</p>			8
<p>Unit 5 Store management- Introduction, objectives, type of stores, location, layout and its types, store space allocation. Store design- Introduction, concept of store design, exterior and interior of a store and merchandise presentation strategy.</p>			7
<p>Unit 6 Effective sales techniques, boutique operations, brand building, competitive strategies and consumer survey, market research, trade shows, exhibitions, fashion shows.</p>			8

References:

- Gini Stephens Frings, 'Fashion – From Concept to Consumer, 6th edition, Prentice Hall (1999).
- Bennett, Coleman & Co , 'Inside the Fashion Business', Mumbai (1998)_
- Harriet T, Mc Jimsey 'Art and Fashion in Clothing Selection', The Iowa state University Press, Ames, Iowa (1973
- Heannette A Jarnow et-al, 'Inside the Fashion Business', Macmillan Publishing Company, New York.

II Semester

OE: CLOTHING CARE AND MAINTENANCE

Total Teaching Hours = 45; Total Credits= 3

SOL (Specific Objective Learning):

By learning this subject, the students will know how to care and maintain their clothing. The washing methods for different types of clothing and storage. Major difference between Soaps and detergents. Gain knowledge about stain removal and care of expensive clothes.

Number of Theory Credits	Number of lecture hours /semester	Number of practical credits	Number of practical hours /semester
3	45	NA	NA
content of Open Elective Theory Course			

<p>Unit 1 Water- hard and soft water, methods of softening water. Zeolite or Base exchange method. Determination of water hardness.</p>	7
<p>Unit 2 Laundry soaps – Manufacture of soap and methods, composition of soap, types of soap, soap less detergents, chemical action, detergent manufacture, and advantages of detergents. Difference between soap and detergents.</p>	7
<p>Unit 3 Laundry equipment and reagents: Study of laundry equipment and laundry reagents - soaps - detergents - cleaning action of soaps, indigenous cleaning agents - rita nut - shikakai - green gram - bran solution –study of modern and industrial cleaning agents</p>	8
<p>Unit 4 Stiffening Agents: Study of stiffening agents –purpose of stiffeningclassification of stiffening Agents preparation and uses of stiffeners- natural and commercial starches - preparation of starch for use - bleaching agents - blueing and tinting agents and their application – optical whiteners.</p>	8
<p>Unit 5 Washing Machine and Care Labels: Study of different types of house hold/industrial washing machine rotary - swirling - pressure - tumble wash etc.; the various systems of care labeling-washing instruction. Bleaching instruction-drying instruction-ironing instruction-dry cleaning instruction. placement of labels on garments.</p>	7
<p>Unit 6 Stain Removal: Principles of laundering - stain removal - various solvents for stain removing blood, tea, rust; oil/grease etc. – different methods of washing - application of friction by hand rubbing - scribing –tumble wash. General rules and ways of stain removal</p>	8
References:	
<ul style="list-style-type: none"> • Dantyagi S., “Fundamentals of Textile and Their Care”, Oriental Longmans Ltd, New Delhi, 1996 • Denlkar, “Household Textiles and Laundry Work”, Atma Ram and Sons, Delhi, 1993 □ Neomi D'Souza, “Fabric Care”, New Age International Publisher, 1998 <p>Davis, “Laundry and Clothing Care”, Drama Book Publishers, 1995</p>	

Exit option with certification – with ability to start Entrepreneurial venture