



BANGALORE

UNIVERSITY

Scheme and Syllabus

B.Sc. (Fashion & Apparel Design)

(III & IV Semesters)

Academic year 2021-22 onwards

**DEPARTMENT OF APPAREL TECHNOLOGY & MANAGEMENT
JNANABHARATHI CAMPUS
BANGALORE-560056**

Scheme of Examination

B.Sc. (FASHION & APPAREL DESIGN)								
SEMESTER – III								
CODE	Course	Theory/	Instruction	Duration of Exam (Hrs)	Marks			CREDIT
		Practical	Hrs/week		IA	Exam	Total	
	Language I	Theory	4	2.5	40	60	100	3
	Language II	Theory	4	2.5	40	60	100	3
FD.3.1T	Fashion Art and Design	Theory	3	2.5	40	60	100	3
FD 3.1P		Practical	3	3	25	25	50	2
FD.3.2P	Garment Detailing-II	Theory	3	2.5	40	60	100	3
		Practical	3	3	25	25	50	2
FD.3.3P	Apparel Computer Aided Design	Practical	6	4	50	50	100	3
FD OE-3T	Fashion Make over	Theory	3	2.5	40	60	100	3
	SEC-2	Theory+ Practical	1+2	2	25	25	50	2
	PE	Practical	2	-	25	-	25	1
	NCC/NSS/R&R/CA	Practical	2	-	25	-	25	1
				TOTAL	375	425	800	26

B.Sc. (FASHION & APPAREL DESIGN)								
SEMESTER – IV								
CODE	Course	Theory/	Instruction	Duration of Exam (Hrs)	Marks			CREDIT
		Practical	Hrs/week		IA	Exam	Total	
	Language I	Theory	4	2.5	40	60	100	3
	Language II	Theory	4	2.5	40	60	100	3
FD.4.1T	Indian Textiles and Costumes	Theory	3	2.5	40	60	100	3
		Practical	3	3	25	25	50	2
FD.4.2T	Textile & Apparel Testing	Theory	3	2.5	40	60	100	3
		Practical	3	3	25	25	50	2
FD.4.3P	Apparel Production	Practical	6	4	50	50	100	3
FD OE-4T	Textile Art and Crafts of India	Theory	3	2.5	40	60	100	3
	SEC	Theory+ Practical	1+2	2	25	25	50	2
	PE	Practical	2	-	25	-	25	-
	NCC/NSS/R&R/CA	Practical	2	-	25	-	25	1
				TOTAL	375	425	800	26

Program Title	B.Sc. Fashion and Apparel Design	Semester	Third Semester
Course Code	FD.3.1 T	Course Credits	3
Course Name	Fashion Art and Design (Theory)	Contact hours	42 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Understand the role of fashion illustration in fashion design.
- ❖ Analyse various fashion silhouettes and apply design concepts in fashion design.
- ❖ Identify various design elements to incorporate details like collars, necklines, sleeves, cuffs.
- ❖ Develop fashion figures with silhouettes and apply rendering techniques.

Course Content:

Unit-1

Chapter 1

Fashion Research - Introduction, types, and source of research for design collection. Inspiration for fashion designers. Introduction to Concepts and process of Fashion portfolio designing.

4 Hrs

Chapter 2

Fashion Forecasting-Introduction, types. Forecasting- (Time Based) Short term forecasting, long term forecasting. Techniques in forecasting- judgemental, initiative forecasting, Delphi technique, process of fashion forecasting, Colour forecasting- Introduction, importance, impact on fashion, 24 mood categorizations. fashion forecasting agencies.

5 Hrs

Chapter 3

Designing of garments based on figure types, garments to create optical illusion through elements and principles of design.

4 Hrs

Unit -2

Chapter 4

Trend Analysis- Identification/ selection of target market, trend analysis of earlier seasons to understand trend spotting methods and trend life cycles. Forecast interpretation of the current / subsequent season, developing style directions based on selected markets, trend reporting and data presentation.

6 Hrs

Trend analysis for different seasons, trend analysis agencies.

<p>Chapter 5 Flat Sketch - Introduction, importance and application, Method of drawing flats, styling the flats, sketching flats freehand, proportion for flats for women, men, and children, coqui mixed with flats, portfolio flats, Flats for garment manufacture.</p>	<p>2 Hrs</p>
<p>Chapter 6 SPEC – Introduction, importance, application, types- Manual, computerized, Detailed content- Season, description, client, fabrication, trims and accessories, brand label, care label, style, size, and other details.</p>	<p>2 Hrs</p>
<p>Unit -3</p>	
<p>Chapter 7 Design Focus Layout- Design objectives Design direction, attitude in a pose, design emphasis, stylization for Designers., Design journal pages, Design journal thumbnail sketches, maximizing design impact, composition rules, grouping figures, layout, or line up.</p>	<p>8 Hrs</p>
<p>Chapter 8 High End Rendering Techniques-Introduction, depth and shine, highlights pleats, drape, transparency, volume, gathers, folds fringes, Ruffles, cowls, smocking, shirring, gore and pin tucks. Changing proportions - bridal looks, trains, dress and gowns, drape, and volume. Luxury fabric rendering- feather, for lace, embroidered fabrics.</p>	<p>8 Hrs</p>
<p>Chapter 9 Sustainable Fashion – meaning and significance; Environmental concerns related to fashion; Linear fashion and circular fashion; 4R’s in sustainability – Repair, recycle, reuse, and reduce. Moving towards sustainable fashion - Eco fashion, Slow fashion; Fast fashion. Environmental impact of fast fashion.</p>	<p>4 Hrs</p>

References	
1	Bina Abling, “Fashion Sketchbook”, Fair child Books, Bloomsbury Publishing Pvt. Ltd. 2012, Canada
2	Bina Abling, “Fashion Sketchbook”, Bloomsbury Academic USA, 6th edition, 2015
3	Jaeil Lee, Comitte Steen, “Technical Source Book for Designers”, Bloomsbury Academic USA, 2 nd edition, 2015.
4	Ezinma Mbonu, " Fashion Design Research " Laurence king Publishing Ltd.,London., 2014.
5	Patrick John Ireland, “Fashion Design Illustration - Children", Batsford, London, 1996.
7	Peacock J, “Fashion Source Books", Thames and Hudson, London, 1998.
8	Stecker P, “The Fashion Design Manual", Macmillan, Australia, 1997.
9	Tisianna Paci, “Figure Drawing for Fashion Design”, Pepin Press Publication, 2002.

Web Links:

1. <https://www.pdfdrive.com/cutting-edge-fashion-illustration-step-by-step-contemporary-fashion-illustration-traditional-digital-and-mixed-media-e165244052.ht>
2. <https://www.pdfdrive.com/fashion-design-research-d166973913.html>
3. <https://www.youtube.com/watch?v=fJZHrta-FY>
4. <https://www.youtube.com/watch?v=59XPYRXviVc>
5. <https://www.pdfdrive.com/fashion-design-research-d166973913.html>
6. <https://www.pdfdrive.com/the-fashion-designers-textile-directory-a-guide-to-fabrics-properties-characteristics-and-garment-design-potential-d177042853.html>

Program Title	B.Sc. Fashion and Apparel Design	Semester	Third Semester
Course Code	FD.3.1 P	Course Credits	2
Course Name	Fashion Art and Design (Practical)	Contact hours	56 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Understand the concepts and usage of fashion research, forecasting and trend analysis in designing.
- ❖ Incorporate designing skills using high end rendering techniques.

Course Content:

Unit-1

**12
Hrs**

Research Design- Preparation of portfolio based on Inspiration, mood, colour, client and texture, fabric swatch boards based on current trend.

Unit-2

8 Hrs

Illusion in garments: line, Space texture, colour and silhouette. Designing of various garments from the following categories: Children wear, Ladies' wear, Men's wear, Evening wear, Nightwear, summer wear, winter wear and party wear, (2each)

Unit -3

**10
Hrs**

Flat sketch - Sketching flats for women, men and children wear. SPEC - Preparation of spec-sheet with measurement and other details for formal and casual shirt, formal and casual trousers, and frocks.
(any 2)

Unit -4

**10
Hrs**

Fashion sketching of advanced illustration techniques and 3 dimensional views (only hand). Foreshortening of figures, grouping of figures - thematic figure composition

Unit -5

8 Hrs

Design layout- Direction, attitude in a pose, emphasis, stylization for designers, Design journal pages, composition direction and line up.

Unit -6

8 Hrs

High End Rendering techniques- Sketching ruffles, cascades, cowls, smocking, shirring, gathers, gores, pin tucks, dress and gown, bridal look and bridal trains, luxe fabric rendering, black fabric rendering.

Program Title	B.Sc. Fashion and Apparel Design	Semester	Third Semester
Course Code	FD.3.2 T	Course Credits	3
Course Name	Garment Detailing -II (Theory)	Contact hours	42 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Gain knowledge on industrial method of pattern making grading and marker plan.
- ❖ Understand garment sizes and categories.
- ❖ Understand fittings and pattern alteration techniques.
- ❖ Handling special fabrics for garment construction.

Course Content:

Unit-1

Chapter 1

Introduction to pattern development, manual and computerized pattern development, Marker making -Introduction, mini marker, marker plan development and marker efficiency. Digitizer, plotter, and scanner-application in Pattern Making

**3
Hrs**

Chapter 2

Software- Introduction to software used in computerized pattern making, grading, and marker making, marker efficiency and computerized garment manufacturing process.

**4
Hrs**

Chapter 3

Pattern Layout - Definitions, principles, types of layouts, importance of pattern layout Fabric. Estimation - Definition, types of estimation, importance of fabric estimation.

**6
Hrs**

Unit -2

Chapter 4

Handling special fabrics – Introduction, types of special fabrics - stretch fabrics, knit, checks, plaids, stripes, velvet, corduroy, leather, fur and lace. Factors to be considered while pattern making, garment construction, garment finishing, washing, care and storing.

**6
Hrs**

Chapter 5

Grading - Introduction, definition, grading terminologies, principles, types, sizes, grade rules and points, Manual and computerized grading, importance, advantages and disadvantages

**4
Hrs**

Chapter 6

Fitting - Introduction, principles of fitting, types of garments fit, standards for a good fit, e-fitting, Body scanner, 3D simulators.

Pattern alteration techniques - Introduction, methods of alteration technique, importance. Pivot, slash and spread method (length, width, front, back, sleeve, shirt, skirt, trousers)

**6
Hrs**

Unit -3	
<p>Chapter 7 Interlining & Interfacing – Introduction, properties, types, materials, method of applications. Machinery used -Continuous Fusing Press, Flatbed Fusing press, High-Frequency Fusing, Hand Iron.</p>	4 Hrs
<p>Chapter 8 Foundation garments- Introduction, design, fabric, trims and accessories. Types of fitting for men’s innerwear briefs & trunk, swimwear, Women’s innerwear-brassier, panties and swim wear.</p>	5 Hrs
<p>Chapter 9 Sportswear/ and Active wear- Introduction, Design, fabric, garment fitting, materials used and types of sport wear for men and women. Interlinings and interfacing used for sportswear.</p>	4 Hrs

References	
1	Elizabeth Liechty, Judith Rasband, “Fitting and Pattern Alteration”, Bloomsbury Academic USA, 2016.
2	Ruth E. Glock, Grace I.Kunz, “Apparel Manufacturing, sewn product analysis”, Pearson, 2018
3	Steven George Hayes, Praburaj Venkatraman, “Materials and Technology for Sportswear and Performance Apparel”, CRC Press Taylor and Francis Group, 2017
4	Helen J Armstrong, “Pattern Making for Fashion Design”, Pearson, 5th edition, 2009.
5	Martin M Shoben, Patrick J Taylor, “Grading for the Fashion Industry”, LCFS Fashion Media, 2004.
6	Natalie Bray, “Dress Fitting - Basic Principles and Practice”, BSP Professional Book Publishers, 2nd edition, 1991.
7	Patric Taylor, “Grading for the Fashion Industry”, Stanley Thomas Ltd., 1990.
8	Winfred Aldrich, “Metric Pattern Cutting”, Blackwell Science, UK, 1988

Web Links:

1. <https://www.pdfdrive.com/patternmaking-for-fashion-design-fifth-edition-e156669766.html>
2. <http://findmedianow.com/book91.php?asin=0131119826>
3. <https://www.pdfdrive.com/pattern-drafting-grading-e187314653.html>

Program Title	B.Sc. Fashion and Apparel Design	Semester	Third Semester
Course Code	FD.3.2 P	Course Credits	2
Course Name	Garment Detailing -II (Practical)	Contact hours	56 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Understand pattern layout, fabric estimation and garment Construction.
- ❖ Design and construct garment for men, women, and sport categories.
- ❖ Identify and select the suitable garment accessories and trims for the designed garments.

Course Content:

Unit-1

**14
Hrs**

Designing and Development of women's wear (Pattern layout, Fabric estimation and costing must be developed for individual garment)

- Ladies top/Blouse
- Salwar Kameez

Unit-2

**14
Hrs**

Designing and Development of men's wear -Pattern layout, Fabric estimation and costing must be developed for individual garment.

- Casual Shirt/Kurta
- Trouser

Unit -3

**10
Hrs**

Designing and Development of sportswear/Night wear for women's track and field events -Pattern layout, Fabric estimation and costing must be developed for individual garment

- Women (one set each)

Unit -4

**10
Hrs**

Designing and Development of sportswear/Night wear for men's track and field events -Pattern layout, Fabric estimation and costing must be developed for individual garment.

- Men (one set each)

Unit -5

6 Hrs

Development of Manual grading of patterns – Men's shirt, Women's top

Unit -6

2 Hrs

Collection and development of folio on special fabrics, Interlining & Interfacing

Program Title	B.Sc. Fashion and Apparel Design	Semester	Third Semester
Course Code	FD.3.3 P	Course Credits	3
Course Name	Apparel Computer Aided Design (Practical)	Contact hours	84 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Develop digital design Skills in Fashion Design.
- ❖ Understanding design Software to develop patterns.
- ❖ Create design by using different designing tools.
- ❖ Develop patterns for various garments with PDS.GDS

Course Content:

Unit-1

Chapter 1

Introduction to Computer Aided Design-Fundamentals, general process of design, application of computers in design, benefits of CAD and CAD in today's fashion industry.

4 Hrs

Chapter 2

Introduction to Fashion Design Software's- tools in detail, enhancing images, Masking, transforms, working with layers, Merging & blending layers, text effects. Creating an advertising brochure, Brand Label, care label designing, logo designing, development of Visiting card, letterhead.

10 Hrs

Chapter 3

Painting & rendering using software's, creating & manipulating Fashion Model drawings, gradient 'use for rendering & 3D effects, making collage in Photoshop, Applying filters. Creating various boards- Mood/Inspiration/client/customer/colour and Texture board using Photoshop on various themes.

12 Hrs

Unit-2

Chapter 4

Designing using software - Introduction, Learning basic tools. Using Basic Shapes, Transformations, Duplicate, Cloning. Applying fill, outlines, special effects, shaping objects, creating custom Shapes using basic shapes and other drawing tool, working with the text, Effects, shaping object with envelope tool, Power Clip objects, splitting and erasing portion of objects. Creating fashion accessories like necklace, bracelet, anklets, earring, and head gear etc.

10 Hrs

<p>Chapter 5</p> <p>Motifs development – Symmetrical/Asymmetrical, Balanced/Unbalanced, Repeat – ½ drop, ¼ drop, ¾ drop Mirror – H/V and Drop reverse. Design development of Saree with Borders, Pallu and Allover. Design development of Men’s Kurta with Neckline, Cuff, and Sleeve.</p>	<p>10 Hrs</p>
<p>Chapter 6</p> <p>Draping of garments on men’s, women’s & children casual, party, night, sports, office/formal wear using software.</p>	<p>10 Hrs</p>
<p>Unit -3</p>	
<p>Chapter 7</p> <p>Design Development of flat sketches with specification for the following: Children – Girls (A-line & yoke frock), Boys (shirt & shorts) Adults – Women’s (Top, Skirt, gown), Men’s (Shirt, Kurta, Trouser). For the above create spec sheets and cost sheets for each garment using softwires.</p>	<p>10 Hrs</p>
<p>Chapter 8</p> <p>PDS – Introduction, Pattern Design – Introduction to PDS (pattern design screen), File menu, Opening and saving, Managing Pieces on the screen, measure, Edit and View functions. Point & Notch Functions, line functions, Piece functions.</p>	<p>10 Hrs</p>
<p>Chapter 9</p> <p>Prepare basic Pattern set, grade the patterns to smaller, larger size, Grading creating Marker plan - A-Line Frock, Skirt, Shirt, Dress/ Top, Shorts/Trousers and Kurta.</p> <p>(Note: Fashion Studio software / Photoshop / Corel Draw/ Jindex 3D fashion etc. may be used)</p>	<p>8 Hrs</p>

References	
1	Kathleen Colursy M, “Fashion Design on Computers”, Prentice Hall, 2004. 32
2	Radhakrishnan R, Subramanian S, Raju V, “CAD/CAM/CIM Computer Aided Design & Manufacturing”, New Age International Publications, 2000.
3	Renee Weiss Chase, “CAD for Fashion Design”, Prentice Hall Publications, 1997.
4	Taylor P, “Computers in Fashion Industry”, Heinemann Publication, 1990.
5	Voisinet Donald D. “Computer Aided Drafting & Design-Concept & Application”, McGraw-Hill, 1987.
6	Winfred Aldrich, “CAD in Clothing & Textiles”, Blackwell Science, 1994.

Web Links:

1. <https://toaz.info/doc-view>
2. https://hobbydocbox.com/Photography/127573225-Cad-for-fashion-design-renee-weiss-chase-prentice-hall-upper-saddle-river-nj-07458.html#download_tab_content
3. <https://www.pdfdrive.com/computer-aided-design-training-needs-in-fashion-and-e11237482.html>
4. <https://www.pdfdrive.com/pattern-cutting-for-clothing-using-cad-how-to-use-lectra-modaris-pattern-cutting-software-e157367890.html>
5. <https://www.sciencedirect.com/science/article/pii/B9781845699314000271>

Program Title	B.Sc. Fashion and Apparel Design	Semester	Third Semester
Course Code	OE-3T	Course Credits	3
Course Name	Fashion Make Over (Theory)	Contact hours	42 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Groom and style for any occasion.
- ❖ Acquire knowledge about various garments suitable for different occasions.
- ❖ Demonstrate knowledge and skills of makeover through reflective experiential learning.
- ❖ Bring about a change in personality through makeover.

Course Content:

Unit-1

Chapter 1

Fashion Make Over- Introduction to makeover, importance, types- clothing, makeup, accessories, materials.

**4
Hrs**

Chapter 2

Introduction to different styles (Chic, exotic, classic, glamorous, sexy, sophisticated, tomboy, hippies, etc.) study of fashion appreciation- historical, contemporary and art style to understand fashion as a social phenomenon.

**4
Hrs**

Chapter 3

Elements of Fashion and styling for women - Skirt, blouses, dresses, trousers, Tops.
Men- shirts, trousers, Kurta, formals, jackets (traditional, Casual, formal)

**6
Hrs**

Unit -2

Chapter 4

Selection of clothes- clothing for children, teenagers, youth, middle aged, adults. Types of clothes,-selection according to region, season, and occasion.

**5
Hrs**

Chapter 5

Planning clothing needs for school, college, party, sports, corporate, traditional, holiday.

**5
Hrs**

Chapter 6

Make up- Introduction to makeup, types based on skin type, shape of the face, eyes, nose, lips.

**5
Hrs**

Unit -3

Chapter 7

Make up materials- brushes, moisturizer, primer, concealer, foundation, compact. Eye makeup- introduction, types, materials, lip – introduction, types and materials. Choice of colors based on

**6
Hrs**

skin color, make up for corporates, traditional, casual- beach, swim. Special occasions- wedding, party, award ceremony. Techniques for removal of Makeup skin care and maintenance.	
Chapter 8 Accessories- Introduction to men's and women's accessories, importance, types- heads gear, footwear, handwear, handbags, scarfs, stoles, watches, jewellery	4 Hrs
Chapter 9 Styling and makeover for different Occasion- Formal wear, party wear- Indian, Wester wear, casual wear, beach wear, for both men and women,	3 Hrs

References	
1	Trish McEvoy, "The makeover of a confident Women." Harper wave publishers, 2017
2	Danielle Griffiths, "Fashion stylist Handbook", Laurence King Publishers 2016
3	Rouse 'Understanding Fashion", Blackwell Science, UK 1989
4	Alison Freer, "How to get Dressed." Ten speed press, Berkeley Publishers, 2015
5	Kendall Farr, "The pocket stylist." Penguin Group Publishers, USA Inc, 2004
6	Clinton Kelly, Stacy London, "Dress you're Best- The complete guide to finding the style that's right for your body, "3 River Press Publication, 2005
7	Alan Flusser, "Dressing the Man- Mastering the Art of Permanent Fashion." Harper Collins Publication, 2002
8	Boris Entrup," 10 Minutes Make up," Dorling Kindersley, London, 2014

Web Links:

<https://www.pdfdrive.com/how-to-have-style-style-discourse-in-a-makeover-show-and-fashion-consumption-e20386462.html>

<https://www.pdfdrive.com/dressing-the-man-mastering-the-art-of-permanent-fashion-e184383501.html>

<https://www.pdfdrive.com/mastering-fashion-styling-e157940840.html>

<https://www.pdfdrive.com/the-makeup-artist-handbook-techniques-for-film-television-photography-and-theatre-d165462165.html>

Program Title	B.Sc. Fashion and Apparel Design	Semester	Fourth Semester
Course Code	FD.4.1 T	Course Credits	3
Course Name	Indian Textiles and Costumes (Theory)	Contact hours	42 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Understand history of textiles and its influence with reference to fashion clothing.
- ❖ Understand and use symbolic motifs and colour in designing traditional textiles.
- ❖ Acquaint with sketching skills of costumes for different regions of India.
- ❖ Understand the importance of Indian Costumes and use them in designing fashion designer wear.

Course Content:

Unit-1

Chapter 1

History of Clothing & Textiles- Introduction, Pre-historic reference, influence of religion, art, trade, and royalty with respect to main features and relevance to industry today. History of costumes - Introduction, beginning of costume - Body decorations, body staining, tattooing, cutting and scarification, adoption of fibrous apparel, initial manufacturing of textiles, Earlier decoration of textiles, Types of ornaments used in the beginning - Tattooing, mutilation, and other methods of skin decoration.

**3
Hrs**

Chapter 2

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.

**3
Hrs**

Chapter 3

Origin of Clothing (Dress)-Stone age, Neolithic Age, Bronze Age, Indus Valley Civilization, Vedic age. Changing scenario of Indian costumes and influence on present day clothing.

**6
Hrs**

Unit -2

Chapter 4

Middle Ages - 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. Mauryan, Guptas, Satavahanas, Kushans & Mughals.

**6
Hrs**

Chapter 5

Hand Woven Textiles- Saris - Banaras Brocades, Baluchari, Jamdani, Dhaka Muslin, Himru, Amru, Tanchoi, Potala, Pochampalli, Paithani, Kanjeevaram, Chanderi, Maheshwari, Ilkal,

**4
Hrs**

Molakalmuru, Mysore silks, Kasavu, Narayanpet, Gadwall, Mangalagiri, Uppada, and Venkatagiri Embroidered Textiles- Kashmiri, Chikankari, phulkari, Kanta, Parsi Gara, Zardozi and Ari. Shawls-Kashmir Shawls, Kullu & Kinnaur Shawls, Wraps of North-east. Floor coverings - Carpets, Durries & Rugs.	
Chapter 6 Printed and Painted Textiles of India- Introduction, history, types of printed, dyed, and painted textiles of India. Colors, motifs, and techniques used in printed, dyed and painted Indian traditional textiles of India. Production processes of various dyed, printed and painted Indian textiles. Printed Textiles:Block prints- Bagru, Sanganer, Ajrakh. Painted Textiles – Kalamkari, Warli, Madhubani.	6 Hrs
Unit -3	
Chapter 7 Resist Dyed Textiles- Introduction, Types, design used in Bandhej & Lehariya of Rajasthan - Ikat - Patola of Gujarat, Bandhas of Odisha, Pochampalli of Andhra.	4 Hrs
Chapter 8 Traditional costumes of Northern India – Jammu & Kashmir, Punjab, Himachal Pradesh, Haryana, Madhya Pradesh, Uttarakhand, and Uttar Pradesh. Traditional costumes of Eastern India – West Bengal, Bihar, Jharkhand, Arunachal Pradesh, Assam, Sikkim, Nagaland, Manipur.	4 Hrs
Chapter 9 Traditional costumes of Southern India – Tamil Nadu, Kerala, Karnataka, and Andhra Pradesh. Traditional costumes of Western states of India – Rajasthan, Gujarat, Maharashtra, and Goa.	4 Hrs

References	
1	Gertrud Lehnert, "A History of Fashion in the 20th Century", Konemann Publications, 2000.
2	Jamila Brij Bhushan, "The Costumes and Textiles of India", Taraporevala, Bombay, 1958.
3	Martand Singh, "Hand Crafted Indian Textiles", Lustre Press, 2005.
4	Parul Bhatnagar, "Decorative Design History in Indian Textiles and Costumes", Abhishek Publications, 2011.
5	Parul Bhatnagar, "Traditional Indian Costumes & Textiles", Abhishek Publication, 2009.
6	Phyllis Tortora, Keith Eubank, "Survey of Historical Costumes, A History of Western Dress", Bloomsbury Publishing India Private Limited, 5th edition, 2009.
7	Prakash, Raman K, Pradeesh K, "Warli Traditional Folk Art from India", Shree Book Centre, Publication, 2016

Web Links:

1. [https://www.cuttersguide.com/pdf/References/Indian%20Costumes%20by%20Biswas,%20A%20\(Arabinda\),%201925.pdf](https://www.cuttersguide.com/pdf/References/Indian%20Costumes%20by%20Biswas,%20A%20(Arabinda),%201925.pdf)
2. https://www.academia.edu/259095/Traditional_Indian_Costumes_and_Textiles

Program Title	B.Sc. Fashion and Apparel Design	Semester	Fourth Semester
Course Code	FD.4.1 P	Course Credits	2
Course Name	Indian Textiles and Costumes (Practical)	Contact hours	56 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Understand about evolution of Indian costumes since ancient times.
- ❖ Acquire knowledge of textiles and costumes and implement the techniques.
- ❖ Acquire skills in identifying traditional fabrics for designing.
- ❖ Ability to sketch and incorporate ancient designs.

Course Content:

Unit-1	10 Hrs
Sketching of costumes and hairstyles of ancient India -Indus valley, Vedic period. (Men and Women).	
Unit-2	10 Hrs
Sketching of costumes and Hairstyles of Middle age- Mauryan, Kushans, Gupta and Mughal period (Men and Women).	
Unit -3	10 Hrs
Design and development of Sarees (Motif, all over, border, Pallu of any four states in India	
Unit -4	12 Hrs
Sketching of costumes -Northern India (Jammu and Kashmir, Punjab, and Rajasthan), Sketching of costumes of East India (West Bengal, Assam, Manipur) Male & female	
Unit -5	10 Hrs
Sketching of costumes -Western India (Gujarat, Rajasthan, Maharashtra, Goa) Sketching of costumes of Southern India (Karnataka, Tamil Nadu, Kerala, Andhra Pradesh) Male and Female	
Unit -6	4 Hrs
Development of a detailed report and pictures of any one Textiles of India	

Program Title	B.Sc. Fashion and Apparel Design	Semester	Fourth Semester
Course Code	FD.4.2 T	Course Credits	3
Course Name	Textile & Apparel Testing (Theory)	Contact hours	42 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Understand the procedure to be followed in Textile Testing.
- ❖ Analyse the various tests for fibre, yarn, fabric, and garments.
- ❖ Understand the working principles of textile testing equipment's.

Course Content:

Unit-1

Chapter 1

Introduction to textile testing, objectives of testing, Samples for testing- Types and its importance.

**3
Hrs**

Chapter 2

Fiber terminologies, moisture and moisture relationship, moisture content and regain. Fiber maturity, fiber length, fiber fineness. - objectives and determination

**2
Hrs**

Chapter 3

Yarn count- Direct system and Indirect System. Its importance in fabric manufacturing. Yarn twist- twist direction, amount of twist, and effects of twist on fabric properties. Determination of Twist

**4
Hrs**

Unit -2

Chapter 4

Fabric testing- fabric dimensions- length, width, thickness, determination of fabric weight - GSM measurement and its application to different fabrics, cover factor, Fabric shrinkage.

**5
Hrs**

Chapter 5

Testing of Fabric Strength - Terminology and definition-Tensile strength, bursting strength Tear strength. - objectives and determination.

**6
Hrs**

Chapter 6

Fabric Air permeability, stiffness, drape, crease resistance, abrasion resistance, pilling, objectives & determination bow & skew

**9
Hrs**

Unit -3	
Chapter 7 Determination of colour fastness to laundering, rubbing, light and perspiration.	5 Hrs
Chapter 8 Tensile properties of seams and stitches, zipper test.	4 Hrs
Chapter 9 Garment and garment accessories testing – testing of fusible interlinings, zippers, elastic waistband, sewing threads, buttons, snap fasteners, wear testing.	4 Hrs

References	
1	J.E .Booth, —Principles of Textile Testing, CBS Publishers and Distributors, 1996
2	B.P. Saville, —Physical testing of Textiles, Woodhead Publishing Ltd. 1999
3	Pradeep V. Mehta, —Managing Quality in Apparel Industry, New Age international Ltd.
4	J.N. Mandal, D.G. Divshikar, A Guide to Geo Textiles Testing, New Age International Ltd
5	ArindamBasu, Textile Testing, SITRA Publications.

Program Title	B.Sc. Fashion and Apparel Design	Semester	Fourth Semester
Course Code	FD.4.2 P	Course Credits	2
Course Name	Textile & Apparel Testing (Practical)	Contact hours	56 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Handle the textile testing equipment with ease.
- ❖ Understand the procedure to be followed to test fabrics and trims.

Course Content:

Unit-1	12 Hrs
Determination of Geometrical properties of Fabrics: Thread density, Yarn count, GSM, thickness, cover factor	
Unit-2	8 Hrs
Determination of fabric bending and drape.	
Unit -3	12 Hrs
Determination of fabric tensile strength, abrasion resistance and pilling resistance.	
Unit -4	6 Hrs
Determination of fabric crease recovery.	
Unit -5	10 Hrs
Determination of fabric shrinkage, colour fastness to washing, rubbing and light.	
Unit -6	8 Hrs
Determination of garment accessories testing - Button Snap pull test, zipper test, seam strength test.	

Program Title	B.Sc. Fashion and Apparel Design	Semester	Fourth Semester
Course Code	FD.4.3 P	Course Credits	3
Course Name	Apparel Production (Practical)	Contact hours	84 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Develop patterns as per Industrial Standards.
- ❖ Use skills in designing and garment construction of Men's and Women's garments
- ❖ Develop and understand Tech pack and Spec sheet
- ❖ Work confidently in production line of an apparel industry.

Course Content:

Unit-1

Chapter 1

ASTM standards for Seams & stitches, study of international stitch number, Development of samples of seams and its types, Development of samples of Stitch types, Stitch length & stitch & seam dimensions.

**4
Hrs**

Chapter 2

Apparel accessories & components - fasteners, labels, support materials, decorative trims, tapes & packing materials. Preparation of folio on all Apparel Accessories & components used in Apparel Industry.

**4
Hrs**

Chapter 3

Analysis of style and fit for kid's Men and women wear garments (any two brands). Develop a tec pack for the analysed garments.

**4
Hrs**

Unit -2

Chapter 4

Design and Development of Men's Formal/Executive Shirt using blocks. of Layout Development of Tec pack including spec sheet, Constriction detail, BOM, Layout fabric Consumption & Costing

**12
Hrs**

Chapter 5 Design and Development of Men's Trouser using blocks. Development of Tec pack, Including Spec sheet, Construction detail BOM, Layout, and Costing fabric consumption,	12 Hrs
Chapter 6 Design and Development of Men's Ethnic wear Sherwani Suit using blocks. Development of Tec pack, including spec sheet, Construction detail, BOM, Layout and Costing fabric consumption,	12 Hrs
Unit -3	
Chapter 7 Design and Development of Women's Formal/Executive Shirt using blocks. Development of Tec pack, including Spec Sheet, Constriction detail, BOM, Layout and costing fabric consumption,	12 Hrs
Chapter 8 Design and Development of Women's formal skirt using blocks. Development of Tec pack, including Spec Sheet, Constriction detail, BOM, Layout and costing	12 Hrs
Chapter 9 Design and Development of executive Blazer (Men/Women) using blocks. Development of Tec pack, including Spec Sheet, Constriction detail, BOM, Layout and fabric consumption, trims, and support materials, costing.	12 Hrs

References	
1	Teresa Gilewska "Pattern Drafting for Fashion-Advanced" Bloomsbury Publishing, 2019.
2	Claire Shaeffer, "Sewing for the Apparel Industry", Pearson publication, second edition, 2012.
3	Chuter A J, "Introduction to Clothing Production Management", Wiley India Pvt. Ltd., 2nd edition, 2011.
4	Mary Ruth Shields, "Industrial Clothing Construction Methods", Fair Child Publications, 2010. 28
5	Paula J, Myers-Mcdevitt, "Apparel Production Management and the Technical Package", Fair Child Publications, 2010.
6	Ruth E. Glock, Grace I. Kunz, "Apparel Manufacturing Sewn Product Analysis", Pearson/Prentice Hall, 2005.

Program Title	B.Sc. Fashion and Apparel Design	Semester	Fourth Semester
Course Code	OE-4 T	Course Credits	3
Course Name	Textile Art and Crafts of India (Theory)	Contact hours	42 hrs

Course Outcomes: On completion of the course, the student will be able to:

- ❖ Gain in-depth knowledge about Textile Art and Craft of India.
- ❖ Develop understanding of various Indian art and crafts.
- ❖ Understand the materials and process of developing arts and crafts in India.
- ❖ Appreciate the art and craft of India.

Course Content:

Unit-1

Chapter 1

Textile Art & Craft – Introduction, meaning, definition, types of art and craft in India.

**2
Hrs**

Chapter 2

Introduction to the basic concept in art & crafts. History of Indian art & craft. Factors influencing Craft - Social, Economic, Psychological, Technological influence.

**4
Hrs**

Chapter 3

Art & Crafts of Northern India- Kashmir- carpets, shawls, silverware and woodworks. Punjab - Phulkari, Jootis, Durries and Parandas. Haryana -pottery, weaving, Bagh, and Palm leaf work. Himachal Pradesh, paintings, leathercraft metal work and stone craft.

**6
Hrs**

Unit -2

Chapter 4

Art & Craft of Northern India- Chhattisgarh, godna art, bamboo craft, cowrie craft, kosa. Madhya Pradesh-, stone carvings, folk paintings, iron craft, Zari and toys and doll making,

**6
Hrs**

Chapter 5

Art & Craft of West India-Rajasthan- blue pottery, ivory works, Meenakari, Lac works, Thewa art. Gujrat- Bead Craft, Khavda Pottery. Maharashtra- Kolhapur chappal, Warli painting, Bidiri ware and metal embossing. Goa- funky crafts of Goa. Seashell crafts, hand painted tiles, brassware, wooden lacquerware, and Azulejos or Hand painted tiles.

**5
Hrs**

Chapter 6

Art & Craft of North-East India-Arunachal Pradesh- colourful masks, silver objects and wooden vessels, bamboo and cane articles, wood carving, Mishmi shawls and Sherdukpen shawls, Thangka Painting, Assam- bamboo craft, silk textiles, cane craft, water hyacinth handicraft, bell metal craft and pottery. Manipuri dance doll. Kaun Grass Craft, Nagaland- baskets hats, mats,

**5
Hrs**

Unit -3	
<p>Chapter 7 Art & Craft of East India- West Bengal- Terracotta, Madur, Shola and Dashavatar cards. Odisha- pattachitra, silver filigree, Jharkhand- Jadupatua Painting, Sohrai Painting</p>	6 Hrs
<p>Chapter 8 Art & Craft of South India- Karnataka Wooden -doll making, Mysore paintings, ivory carving, wood carving and sandalwood craft. Kerala -Coconet shell & coir products and lacquerware. Tamil Nadu- Tanjore paintings, Kolu dolls, Toda embroidery, appliqué. Telangana - dhokra craft, Bidiri craft, Cheriya paintings, pearlwork. Andhra Pradesh- Kondapalli toys made of softwood, golden-hued Nirmal paintings, Kalamkari paintings.</p>	6 Hrs
<p>Chapter 9 Current Scenario of art & crafts in India - Current scenario of Art & craft in Domestic and International Market. Visit to any two Craft clusters.</p>	2 Hrs

References	
1	Aditi Rajan & M.P.Rajan, 'Crafts of India- Handmade in India', Mapin Publication Pvt Ltd, 2014
2	Jaya Jaitly, 'Crafts Atlas of India,' Niyogi Books, 2012
3	Marthand Singh, 'Handcrafted Indian Textiles,' Roli Books, 2005
4	Craft Traditions of India-Past, Present and Future, NCERT publication, 2011
5	K.Prakash,' Warli, Traditional Folk art from India, Shree Book Center, 2016
6	Chattopadhyaya K.D, Indian Carpets and Floor Coverings, All India Handicrafts Board, New Delhi, 1977
7	K.Prakash, 'Rajasthani Folk Art' English edition publishers.&Distributors,India, 2003

III and IV Semester B.Sc. FAD Practical

PRACTICALS	
Max.Marks	25
	Marks Allotted
Q.No.I	10
Q.No.II	10
Q.No.III	5

PRACTICALS	
Max.Marks	50
	Marks Allotted
Q.No.I	10
Q.No.II	10
Q.No.III	10
Record	10
Viva	5

Note: Record should be submitted for the exam.

