

ALAGAPPA UNIVERSITY, KARAIKUDI
SYLLABUS UNDER CBCS PATTERN FOR AFFILIATED COLLEGES WITH
EFFECT FROM THE ACADEMIC YEAR 2022-23 ONWARDS

B.Sc. FASHION TECHNOLOGY & COSTUME DESIGNING

Programme Structure

Sem.	Part	Course Code	Courses	Title of the Paper	T/P	Credits	Hours/Week	Max. Marks		
								Int.	Ext.	Total
I	I	2211T	T/OL	Tamil/Other Languages-I	T	3	6	25	75	100
	II	712CE	E	Communicative English -I	T	3	6	25	75	100
	III	22BFC1C1	CC	Fashion Designing	T	5	5	25	75	100
		22BFC1P1	CC	Fashion Designing Practical	P	4	4	40	60	100
		-	AL-IA	BCA/Computer Science/ Chemistry/ Physics	T	3	3	25	75	100
	-	AL-IA	Practical- Respective Allied Theory Course	P	2	2	40	60	100	
	IV	22BVE1	SEC -I	Value Education	T	2	2	25	75	100
		-	-	Library	-	-	2	-	-	-
				Total		22	30	205	495	700
II	I	2221T	T/OL	Tamil/Other Languages-II	T	3	6	25	75	100
	II	722CE	E	Communicative English - II	T	3	6	25	75	100
	III	22BFC2C1	CC	Textile Science	T	5	5	25	75	100
		22BFC2P1	CC	Basic sewing Techniques Lab	P	4	4	40	60	100
		-	AL-IB	BCA/Computer Science/ Chemistry/ Physics	T	3	3	25	75	100
	-	AL-IB	Practical- Respective Allied Theory Course	P	2	2	40	60	100	
	IV	22BES2	SEC-II	Environmental Studies	T	2	2	25	75	100
			Naan Mudhalvan Course		Language Proficiency for Employability(Effective English)	-	2	2	25	75
				Total		24	30	205	570	800
III	I	2231T	T/OL	Tamil/Other Languages-III	T	3	6	25	75	100
	II	2232E	E	English for Enrichment– I	T	3	6	25	75	100
	III	22BFC3C1	CC	Basic Sewing Techniques and Pattern Making	T	3	3	25	75	100
		22BFC3C2	CC	Fashion Clothing Psychology	T	3	3	25	75	100
		22BFC3P1	CC	Fabric Embellishment - Practical	P	3	3	40	60	100
	-	AL-II A	BCA/Computer Science/ Chemistry/ Physics	T	3	3	25	75	100	
	-	AL-IIA	Practical- Respective Allied Theory Course	P	2	2	40	60	100	
	IV	22BE3	SEC-III	Entrepreneurship	T	2	2	25	75	100
-		NME-I	Adipadai Tamil/ Advance Tamil/ IT Skills for Employment/ MOOC'S	T	2	2	25	75	100	
				Total		24	30	255	645	900
IV	I	2241T	T/OL	Tamil/Other Languages -IV	T	3	6	25	75	100
	II	2242E	E	English for Enrichment–II	T	3	6	25	75	100
	III	22BFC4C1	CC	Textile Dyeing and Printing	T	4	4	25	75	100
		22BFC4C2	CC	Garment Quality and Specification	T	4	4	25	75	100
		22BFC4P1	CC	Garment Construction Adult Wear – Lab	P	3	3	40	60	100
	-	AL-II B	BCA/Computer Science/ Chemistry/ Physics	T	3	3	25	75	100	

		-	AL-II B	Practical- Respective Allied Theory Course	P	2	2	40	60	100	
	IV	-	NME-II	Adipadai Tamil/ Advance Tamil/ Small Business Management / MOOC'S	T	2	2	25	75	100	
		Naan Mudhalvan Course		Digital Skills for Employability – (Microsoft-Office Fundamentals)	-	2	3	25	75	100	
				Total		26	30	255	645	900	
V	III	22BFC5C1	CC	Textile Testing	T	4	4	25	75	100	
		22BFC5C2	CC	Home Textiles	T	4	4	25	75	100	
		22BFC5C3	CC	Textile care and Maintenance	T	4	4	25	75	100	
		22BFC5C4	CC	Visual Merchandising	T	4	4	25	75	100	
		22BFC5P1	CC	Textile Testing Lab	P	4	6	40	60	100	
		22BFC5P2	CC	CAD LAB	P	4	6	40	60	100	
	IV	-		Career development/employability Skills	-	-	2	-	-	-	
				Total		24	30	180	420	600	
VI	III	22BFC6I	DSE	Internship		24	26	150	250	400	
	IV	Naan Mudhalvan Course		Employability Readiness* (Naandi /Unnati/Quest/IBM Skills build)	-	2	4	25	75	100	
				Total		26	30	175	325	500	
	(Or)										
	III		22BFC6E1	DSE	Garment Manufacturing Technology	T	6	6	25	75	100
			22BFC6E2		Boutique Management	T	6	6	25	75	100
			22BFC6E3		Fabric Structure and Design	T	6	6	25	75	100
			22BFC6E4		Indian Traditional Textiles and Embroidery	T	6	6	25	75	100
	IV	-	Others	Library/Yoga etc			2				
			Naan Mudhalvan Course		Employability Readiness* (Naandi /Unnati/Quest/IBM Skills build)	-	2	4	25	75	100
				Total		26	30	125	375	500	
(Or)											
III		22BFC6PR	DSE	Project		6	8	25	75	100	
		22BFC6E5		Organization of Garment Unit	T	6	6	25	75	100	
		22BFC6E6		Fashion Business Communication	T	6	6	25	75	100	
		22BFC6E7		Industry Garment Machineries and Equipment	T	6	6	25	75	100	
IV	Naan Mudhalvan Course		Employability Readiness* (Naandi /Unnati/Quest/IBM Skills build)	-	2	4	25	75	100		
				Total		26	30	125	375	500	
Grand Total											
						146	-	--	-	4400	

*Employability Readiness -Women's Colleges Naandi course and all other Colleges IBM Skills build Course.

Sem.	Part	Course Code	Title of the Paper	Credits	Hours/Week	Marks		
						Int.	E	Total
I	III	71BEPP	Professional English for Physical Science-I	4	5	25	75	100
II		72BEPP	Professional English for Physical Science-II	4	5	25	75	100
		*	Professional English for Physical Science-III	4	5	25	75	100
			Professional English for Physical Science-IV	4	5	25	75	100

* The Syllabus of Professional English for III & IV Semester will be provided after Receiving the syllabus from TANSCHÉ.

As per TANSCHÉ, the Professional English book will be taught to all four streams a part from the existing hours of teaching/additional hours of teaching (1hour/day) as a 4 credit paper as an add on course on par with Major paper and completion of the paper is a must to continue his/her studies further.

- TOL-Tamil/Other Languages,
- E-English
- CC-Core course-Core competency, critical thinking, analytical reasoning, research skill & teamwork
- Allied -Exposure beyond the discipline
- AECC-Ability Enhancement Compulsory Course (Professional English & Environmental Studies) -Additional academic knowledge, psychology and problem solving etc.,
- SEC-Skill Enhancement Course-Exposure beyond the discipline (Value Education, Entrepreneurship Course, Computer application for Science, etc.,
- NME -Non Major Elective-Exposure beyond the discipline
- DSE- Discipline specific elective –Student choice– either or
 - Internship
 - Internship-Marks=Internal=150(75+75) two midterm evaluation through Viva-voce and External 250 marks (Report = 150+VivaVoce=100)=Total 400 marks
 - Theory papers or
 - Project +3 theory papers.
- MOOCs-Massive Open Online Courses
- T-Theory, P- Practical

Semester - I						
Course code	Core Course-I			T/P	C	H/W
22BFC1C1	Fashion Designing			T	5	5
Objectives	<ul style="list-style-type: none"> ➤ To understand the elements and principles of design and apply it with garment design. ➤ To study the wardrobe planning and figure irregularities and design garment according to the specific need. ➤ To understand the fashion concepts and scope of fashion industry. ➤ To know the basic principles of designing. ➤ To Design the suitable garments for unusual figure 					
Unit – I	FASHION CONCEPT: Terms Related to the Fashion Industry - Fashion, Style, Fad, Classic, Collection, Chic, Mannequin, Fashion Show, Trend, and Haute Couture. Meaning of Fashion, Origin of Fashion, Meaning of Fashion Designing, Classification of Fashion, Influence of Fashion, Fashion Illustration and Fashion Cycle.					
Unit – II	DESIGN & ELEMENTS of DESIGN: Design –Definition, Types- Structural and Decorative Design, Requirements of a Good Structural and Decorative Design. Application of Structural and Decorative Design in the Dress, Elements of Design -Line, Shape or Form, Color, Size and Texture.					
Unit – III	PRINCIPLES OF DESIGN, ACCESSORIES & TRIMMINGS : Principles of Design – Balance, Rhythm, Harmony, Emphasis and Proportion. Fashion Accessories- Shoes, Hand Bags, Hats and Tie -Different Types/Shapes. Trimmings, Decorations and its application, Lace, Ric Rac, Appliqué, Embroidery, Smocking, fasteners, Belts and Bows, Faggoting, Ruffles, Patch work and Quilting.					
Unit – IV	COLOURS: Colours – Importance. Dimensions of colour, Colour Theory – Prang colour chart. Colour Harmonies - Monochromatic, Analogous, Complimentary - Double Complimentary Split Complimentary, Traid Colours, Cool Colours and Warm Colours and Moods of Colour.					
Unit – V	FIGURE TYPES: Silhouettes and figure types-pear figure, hourglass figure, rectangular figure, wedge figure, overall roundness figure. Choosing the best dress for the figure types. Factors influencing design application for different age group, occasions and seasons					
Reference and Textbooks:						
Brown, B. (2001). Fashion Accessories:: The Complete 20th Century Sourcebook. <i>Reference Reviews</i> .						
Calderin, J., & Volpintesta, L. (2013). <i>The Fashion Design Reference & Specification Book: Everything Fashion Designers Need to Know Every Day</i> . Rockport Pub.						
Celhay, F., Magnier, L., & Schoormans, J. (2020). Hip and authentic. Defining neo-retro style in package design. <i>International Journal of Design</i> , 14(1), 35-49.						
MacDonald, N. M. (2009). <i>Principles of flat pattern design 4th edition</i> . Bloomsbury Publishing USA.						
Michael, O. (2020). PTSD and female sexuality in the aftermath of childhood and adolescent sexual abuse in Una’s Becoming Unbecoming. <i>Journal of Graphic Novels and Comics</i> , 11(4), 394-411.						
Samara, T. (2020). <i>Design Elements: Understanding the rules and knowing when to break them-A Visual Communication Manual</i> . Rockport publishers.						
Outcomes	<ul style="list-style-type: none"> ➤ Learn elements and principles of design and its application in garment design. ➤ Understand the type o trims and decorated accessories used in garment Embellishment. ➤ Gain knowledge on key designing principles. ➤ Exploring the knowledge on figure types. ➤ Students will be able to know about the national and international designers. 					

Semester - I				
Course code	Core Practical-I	T/P	C	H/W
22BFC1P1	Fashion Designing Practical	P	4	4
Objectives	<ul style="list-style-type: none"> ➤ To study about the basics of drawing. ➤ To gain knowledge about shading techniques. ➤ To learn about the color wheel and schemes. ➤ To educate the students about head theory. ➤ To enable the students to develop croquis and design garments. 			
<p>A. PREPARE SKETCHES FOR THE FOLLOWING Introduction to free hand drawing and basics of shading</p> <ol style="list-style-type: none"> 1. Fashion Figure - 8 head theory 2. Facial features- Eyes, nose, lips, ears. 3. Face, Hands, Legs-Different Positions. 4. Different Hairstyle for women –any five 5. Different poses of fashion figure (women, men and kids)- any five <p>B. DRAW & SHADE THE FOLLOWING WITH SUITABLE SHAPE & SIZE</p> <ol style="list-style-type: none"> 1. Different types of Collars. 2. Different types of Sleeves. 3. Different types of Necklines. 4. Different types of Skirts. 5. Different types of Ladies Tops. 6. Different types of Shirt. 7. Different types of Pant (full and half). 8. Different types of Salwar Kameez with Fashion Figure. 9. Different types of Accessories-Bags, Foot wear, Hats. 10. Different types of Ornaments – Traditional, Modern and Antique. <p>C. ILLUSTRATE FIGURES AND DESIGN GARMENTS 1. Casual wear, formal wear and stylish wear</p> <p>D. PREPARE THE FOLLOWING CHARTS</p> <ul style="list-style-type: none"> • Prang Colour Charts • Value Chart • Intensity Chart <p>E. ILLUSTRATE GARMENT DESIGNS FOR THE ELEMENTS OF DESIGN</p> <ul style="list-style-type: none"> • Line, Color, Texture, Shape, Size <p>F. ILLUSTRATE GARMENT DESIGNS FOR THE PRINCIPLES OF DESIGN</p> <ul style="list-style-type: none"> • Balance, Harmony, Emphasis, Proportion, Rhythm. 				
Outcomes	<ul style="list-style-type: none"> ➤ Draw the different head theory which helps them to do the illustration. ➤ Gain knowledge on basic drawing principles. ➤ Understand the shading techniques. ➤ Design the different figures using head theories. ➤ Design and present the fashion figures with different poses. 			

Semester - II				
Course code 22BFC2C1	Core Course-II Textile Science	T/P T	C 5	H/W 5
Objectives	<ul style="list-style-type: none"> ➤ To understand the different fibers, yarn and fabric process. ➤ To study the fiber properties, manufacturing process, and its application in textiles. ➤ To enable students to gain knowledge in yarn making. ➤ To enable the students to recognize the machineries used in the production process of yarn and fabric. ➤ To educate different types of fabric construction. 			
Unit – I	FIBER MANUFACTURING Introduction to the Fibers - Classification of Textile Fibers- Natural and Manmade fibers, Characteristics - Primary and Secondary properties of Textile Fibers. Manufacturing Process, Properties, Uses, application of Fibers. – Cotton, silk, wool, rayon, jute, polyester, recent textile fibers in market.			
Unit – II	YARN MANUFACTURING Yarn - Conventional ring spinning method, chemical spinning method, others - Electrostatic spinning, Airjet spinning, Twistless spinning. Yarn twist, yarn count. Types and characteristics of yarns.			
Unit – III	WEAVING Preparation for weaving (warping, sizing, looming) Basic loom structure. Weaving- Definition, Primary motions – shedding – Definition and a brief explanation, picking (shuttle and shuttle less looms), beating up. Secondary motion – Definition and Ancillary motion. Types of selvages. Construction of cloth designs - Design, draft and peg plan.			
Unit – IV	KNITTING Knitting – Definition, Comparison between woven fabrics and knitted fabric. Classification of knitted fabrics weft knitting – plain knit stitch, Rib stitch, Warp knitting - Tricot knit, Raschel Knit, Milanese Knit, Identification of knitted fabric defects.			
Unit – V	FELTED AND NON-WOVEN FABRICS Felted fabrics – Felting process. Types of felt, properties and uses of felt. Non woven – Definition, classification of non-woven fabrics, web forming techniques, bonding techniques, and finishing techniques. Characteristics of non-woven, uses of non-woven fabrics. Other fabrication techniques- narrow fabrics, lace making, braiding and netting.			
Reference and Textbooks: Carr, D. (Ed.). (2017). <i>Forensic textile science</i> . Wood head Publishing. Kong, I., Tshai, K. Y., & Hoque, M. E. (2015). <i>Manufacturing of natural fibre reinforced polymer composites</i> (pp. 331-349). Springer, Cham. Miao, M., & Xin, J. H. (Eds.). (2017). <i>Engineering of high-performance textiles</i> . Wood head Publishing. Murthy, H. S. (2016). <i>Introduction to textile fibres</i> , CRC Press. Robertson, J., Roux, C., & Wiggins, K. G. (2017). <i>Forensic examination of fibres</i> . CRC press. Thangamani, K., & Sundaresan, S. (2022). <i>Fabric Manufacturing Technology: Weaving and Knitting</i> , CRC Press.				
Outcomes	The students get insight knowledge in <ul style="list-style-type: none"> ➤ Understand the raw materials and production process involved in both natural and manmade fiber. ➤ Understand the properties of textile fibres. ➤ Analyze the application of each textile fiber. ➤ Acquire the knowledge of spinning, weaving and knitting process. ➤ Understand the differences between woven and knitted fabrics. 			

Semester - II						
Course code	Core Practical-II			T/P	C	H/W
22BFC2P1	Basic Sewing Techniques Lab			P	4	4
Objectives	<ul style="list-style-type: none"> ➤ Impart sewing skills in creating garment components. ➤ To stitch the basic samples of collar, pocket, sleeve etc. ➤ Students will be able to learn seam and seam finishes that have to be given to different fabrics. ➤ Develop skills of students to create basic garment parts and various design elements required for a garment ➤ To make student understand the basic skills related to hand stitches and seams. 					
<p>Preparation Samples for the Following</p> <ol style="list-style-type: none"> 1. Basic stitches – temporary and permanent stitches, basic hand stitches. 2. Preparation of samples for Seams and Seam Finishes. 3. Preparation of samples for Hems. 4. Preparation of samples for Fullness. 5. Preparation of samples for Facings and Binding. 6. Preparation of samples for Plackets and Fasteners. 7. Preparation of samples for Sleeves - Plain Sleeve/Puff Sleeve (any one type). 8. Preparation of samples for Yokes -with and without Fullness. 9. Preparation of samples for Collar- Peter Pan Collar, Full Shirt Collar and Shawl Collar. 10. Preparation of samples for Pocket - Patch, Bound and Side Seam. 						
<p>Reference and Textbooks:</p> <p>Nayak, R., &Ratnapandian, S. (2018). <i>Care and maintenance of textile products including apparel and protective clothing</i>. CRC Press.</p> <p>Paula, A. (2021). <i>Gendered Capitalism: Sewing Machines and Multinational Business in Spain and Mexico, 1850-1940</i>. Routledge.</p> <p>Practical Clothing Construction – Part I, Mary Mathews, Cosmic Press, Chennai, 1986.</p> <p>Practical Clothing Construction – Part II, Mary Mathews, Cosmic Press, Chennai, 1986.</p> <p>Richter, G., Raban, D. R., &Rafaeli, S. (2018, August). <i>Tailoring a Points Scoring Mechanism for Crowd Based Knowledge Pooling</i>. In Proceedings of the 51st Hawaii International Conference on System Sciences.</p> <p>Sewing and Knitting – A Readers Digest, Step -by -Step Guide, Readers Digest Pvt Ltd, Australia, 1993.</p> <p>Zarapker system of cutting –Zarapker. K. R., Navneet publications Ltd ,1994</p>						
Outcomes	<p>The students will be able to</p> <ul style="list-style-type: none"> ➤ Develop samples for seams, seam finishes and hems. ➤ Create samples for fullness, neckline finishes, skirt, sleeve, collars and yoke. ➤ Basic stitching and creative skill will be developed which will help them to construct their garments ➤ Use different stitches and seams as per the requirement of the garment. ➤ Convert fullness of garment with different techniques like dart, pleats etc 					

Semester - III					
Course code	Core Course-III		T/P	C	H/W
22BFC3C1	Basic Sewing Techniques & Pattern Making		T	3	3
Objectives	<ul style="list-style-type: none"> ➤ To study about sewing machine parts functions and its applications. ➤ To know the specialized machines used in garment industry. ➤ To impart knowledge of machines and tools used for sewing ➤ To learn about the various garment details and the way they are attached to finish a garment ➤ To learn different types of finishing in garment construction. 				
Unit – I	Sewing machines- parts and their function, care and maintenance. Tools for measuring, marking, cutting & pressing. Selection of thread and needle for various types of fabric. Bodice Measurement – preparation for measuring- Men’s and women’s measurement. Seams- Definition, types of seams and seam finishes, factors to be considered in selection of seam. Fullness- definition, types of fullness, Calculating material requirements.				
Unit – II	<p>Collars – definition, parts of collar, factors to be considered in designing collar, classification of collar.</p> <p>Yokes: - Definition, selection of yoke design, creating variety in yoke. Drafting patterns for yoke without fullness, yoke with fullness within the yoke & yoke supporting or releasing fullness. Attachment of yokes. Neck line finishes- definition, bias facing, bias binding.</p>				
Unit – III	<p>Sleeves:- Classification of sleeves, types of sleeves- plain, puff at top, bottom, bell, bishop, circular, leg-o-mutton, sleeveless styles, kimono & raglan. Pattern preparation for these sleeves.</p> <p>Pockets- definition- selection of pocket and creating variety in pockets – Plackets and its types. Skirts: Different types of skirts – Drafting patterns for semicircular and circular skirts.</p>				
Unit – IV	<p>Fabric preparation: Preparing the fabric for cutting - Lay planning- Introduction, Rule to remember in pattern layout. Types of layout. Transferring pattern markings stay stitching, ease stitching.</p> <p>Methods of Pattern Making – drafting – principles for pattern drafting- Preparing draft for basic bodice, sleeve and skirt pattern – Draping – draping Techniques - Flat pattern Techniques: Definition, Pivot method, Slash & spread method.</p>				
Unit – V	<p>Commercial pattern - Development of commercial pattern, merits and demerits. Pattern Grading - Definition, Grading terminology, selecting a grading system, grading techniques, their advantages and disadvantages. Computer grading. Grading procedures. Grading of basic block using draft grading systems.</p> <p>Pattern alteration: General principles for pattern alteration. Common pattern alteration in a fitted bodice pattern. Garment fitting and Assembling Standards for a good fit, checking for good fit, solving fitting problems and remedies.</p>				
Reference and Textbooks:					
Armstrong, H. J. (2013). <i>Patternmaking for Fashion Design</i> : Pearson New International Edition PDF - eBook. Pearson Higher Ed.					
Helen Joseph Armstrong, (2013). <i>Patternmaking for Fashion Design</i> . New Delhi: Pearson Education India.					
MacDonald, N. M. (2009). <i>Principles of flat pattern design 4th edition</i> . Bloomsbury Publishing USA.					
Mullet, K. K. (2015). <i>Concepts of pattern grading: Techniques for manual and computer grading</i> . Bloomsbury Publishing USA.					
Muthu, S. S., & Gardetti, M. Á. (Eds.). (2020). <i>Sustainability in the Textile and Apparel Industries: Production Process Sustainability</i> . Springer Nature.					
Nayak, R., & Padhye, R. (Eds.). (2017). <i>Automation in garment manufacturing</i> . Woodhead Publishing.					
Nayak, R., & Padhye, R. (Eds.). (2017). <i>Automation in garment manufacturing</i> . Woodhead Publishing.					
Nayak, R., & Ratnapandian, S. (2018). <i>Care and maintenance of textile products including apparel and protective clothing</i> . CRC Press.					
Richter, G., Raban, D. R., & Rafaeli, S. (2018, August). <i>Tailoring a Points Scoring Mechanism for Crowd Based Knowledge Pooling</i> . In Proceedings of the 51st Hawaii International Conference on System Sciences.					
Vilumsone-Nemes, I. (2018). <i>Industrial cutting of textile materials</i> . Woodhead Publishing.					

Outcomes	The students gain knowledge in <ul style="list-style-type: none">➤ Garment industry production process and its management process.➤ Familiarize the different types of machines and special attachments adopted in garment industry.➤ basic understanding of garments, machines and their use in apparel and fashion industry➤ Students will be able to know about the special attachments and their functions.➤ Students will develop an understanding of how different constructional tools help to make a perfect garment.
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Semester -III						
Course code 22BFC3C2	Core Course-IV			T/P	C	H/W
	Fashion Clothing Psychology			T	3	3
Objectives	<ul style="list-style-type: none"> ➤ Impart knowledge about history of fashion ➤ To study about world fashion centers ➤ To know the psychology needs of consumer to purchase of clothing. ➤ To study about the national and international fashion designer. 					
Unit – I	HISTORY OF INDIAN FASHION Beginning of costume – terminologies in history of Indian costume – Indus Valley and Harappa Period (3300 – 1300BC) – Vedic Period (1500 – 500BC) – Gupta Period (7th century AD) – Mughal Period – British Rule					
Unit – II	FASHION PSYCHOLOGY Factors influencing Fashion Changes-Psychological Needs of Fashion, Social Psychology of Fashion, Technological, Economical, Political, Legal and Seasonal Influence. Role of Costume as a Status Symbol, Personality and Dress, Repetition of Fashion					
Unit – III	FASHION CHANGES AND CONSUMER ACCEPTANCE Fashion Leaders, Fashion Innovators, Fashion Motivation, Fashion Victim, Fashion followers. Fashion Forecasting - Market Research, Evaluating the Collection, Fashion Services, Colours Services, Video Services, Newsletter Services, Websites, Directories and references.					
Unit – IV	FASHION DESIGNERS Indian Designers-Rohit Khosla, Gitanjal Kshyap, Hemant Trivedi, J.J. Valaya, Ritu Kumar, Rohit Bal, Tarun Tahiliani, Sangeetha Chopra, Bhamini Subramaniam, Anju Modi, Ravi Bajaj, Ritu Beri					
Unit – V	WORLD WIDE FASHION CENTERS World fashion Centers- France, Italy, England, Germany, Canada, New York.					
Reference and Textbooks: Benneett, "Femina Book of Fashion", coleman & Co., Ltd., Mumbai (1998) Biswas, A. (2017). <i>Indian costumes</i> . Publications Division Ministry of Information & Broadcasting. dissertation, Maharaja Sayajirao University of Baroda (India)). Elaine Stone, <i>The Dynamics of Fashion</i> , Fairchild Publications, New York, 2001. Frings, <i>Fashion from Concept to Consumer</i> , 7th Edition, Dorling Kindersley Publishing Inc, India, 2008. Jenny Davis, <i>A Complete Guide to Fashion Designing</i> , 1 st Edition, Abhishek Publication, Chandigarh, 2009. Kumari, P. (2021). <i>Innovation in Design of Traditional Mashru Textile for Product Diversification</i> (Doctoral M.R.Soloman & N.J. Rabolt, <i>Consumer Behaviour in Fashion</i> , Dorling Kindersley Publishing Inc, India, 2006. Man Meet Sodhia, <i>History of Fashion</i> , Kalyani Publishers, New Delhi, 2009. Man Meet Sodhia, <i>History of Fashion</i> , Kalyani Publishers, New Delhi, 2007. Pundir, <i>Fashion Technology Today and Tomorrow</i> , A Mittal Publication, New Delhi, 2007.						
Outcomes	The students are able to <ul style="list-style-type: none"> ➤ Knowledge about the fashion designers ➤ Analyze about the fashion changes and the acceptance ➤ Understand the fashion industry and fashion forecasting. ➤ Able to learn fashion leader, Fashion environment and adoption ➤ Acquire knowledge about on Indian and World fashion designers. 					

Semester - III				
Course code	Core Practical-III	T/P	C	H/W
22BFC3P1	Fabric Embellishment-Practical	P	2	4
Objectives	<ul style="list-style-type: none"> ➤ Design and construct fashion accessories based on theme. ➤ To understand the different accessories available in fashion market. ➤ To teach and train the students in the basics of hand and machine embroidery. ➤ To impart knowledge on various types of embroidery stitches. ➤ To make them to acquire skills essential to evaluate the performance of accessories 			
<p>1. Basic Hand Stitches</p> <p>a) Running – Whipped Running Stitch, Threaded Running Stitch</p> <p>b) Hemming</p> <p>c) Back Stitch - Whipped Back Stitch, Threaded Back Stitch</p> <p>2. Basic Embroidery Stitches</p> <p>a) Chain stitch and its types</p> <p>b) Fern Stitch</p> <p>c) Stem Stitch</p> <p>d) Lazy Daisy Stitch and its types</p> <p>e) Blanket (or) Button Hole Stitch</p> <p>f) Satin</p> <p>3. Advanced Embroidery Stitches</p> <p>a) French Knot,</p> <p>b) Bullion Knot</p> <p>c) Feather – Double Feather Stitch, Closed Feather Stitch</p> <p>d) Herring bone and its types</p> <p>e) Cross Stitch</p> <p>4. Other surface Embroidery</p> <p>a) Cut work</p> <p>b) Mirror work</p> <p>c) Applique/ Patch – Hand Applique, Machine Applique</p> <p>d) Bead and sequence</p> <p>e) Zardosi</p> <p>f) Tasseled – Corded Tasseled</p> <p>g) Fringes</p>				
<p>Reference and Textbooks:</p> <p>Shailaja D Naik , Traditional Embroideries of India, APH Publishing, 1996</p> <p>Megan Eckman, Everyday Embroidery for Modern Stitchers, C&T Publishing, 2020</p> <p>Libby Moore, Thread Folk: A Modern Makers Book of Embroidery Projects and Artist Collaborations, Paige Tate & Co, 2019</p>				
Outcomes	<p>The students gain knowledge in</p> <ul style="list-style-type: none"> ➤ Different apparel accessories and its uses in garment design. ➤ Design and construct the accessories based on theme. ➤ Attain knowledge on the embroidery tools and the techniques. ➤ Identify the different hand embroidery stitches and Indian traditional embroidery. ➤ Thorough understanding of the different accessories and embellishments. 			

Semester – IV						
Course code	Core Course-V			T/P	C	H/W
22BFC4C1	Textile Dyeing and Printing			T	4	4
Objectives	<ul style="list-style-type: none"> ➤ To study the fabric preparatory process in textile processing industry. ➤ To impart knowledge in the field of pre-processing, processing and post-processing of textile substrate. ➤ To educate students about textile dyeing and printing ➤ To make them understand various textile finishes. ➤ To introduce different methods and materials of dyeing and printing. 					
Unit – I	TEXTILE PROCESS Water, water Hardness, types, quality required for wet processing industries, softening process, Need for processing - Dry and wet processing for fabrics – Preparatory wet processing – Singeing, desizing, scouring, bleaching, mercerizing, degumming and carbonizing.					
Unit – II	DYEING Classification of dyes – Natural Dyes, mordants and its types, mordanting techniques. Dyeing method, Advantages & Disadvantages of natural dyes. Synthetic dyes – Basic dyes, Direct dyes, vat, sulphur, Naphthol, Reactive, Azoic, acid, and disperse dyes.					
Unit – III	DYEING METHODS Stages of dyeing Methods of Dyeing - Batch, Winch, Jigger, Package, hank dyeing. Colour fastness tests. Recent advancement and technology in dyeing.					
Unit – IV	PRINTING Printing-introduction to printing, Differences between printing and dyeing, preparation of fabric for printing-cotton, polyester, wool and silk, Methods of Printing, Preparation of printing paste, Selection of thickening agents.					
Unit – V	PRINTING METHODS Direct Printing: Block Printing, Stencil printing, Screen printing, Discharge Printing, Resist printing – batik and tie and dye. Other Printing Methods: Mino printing Inkjet printing, Heat transfer printing, photo printing.					
Reference and Textbooks: Mahapatra, N. (2018). Textile Dyes. <i>Journal of Textile and Clothing Science</i> , 1(1), 01-02. Muthu, S. S. (Ed.). (2018). <i>Circular Economy in Textiles and Apparel: Processing, Manufacturing, and Design</i> . Woodhead publishing. Panda, H. (2013). <i>A concise guide on textile dyes, pigments and dye intermediates with textile printing technology</i> . Niir Project Consultancy Services. Uddin, F. (2019). Introductory chapter: textile manufacturing processes. In <i>Textile manufacturing processes</i> . IntechOpen. Uddin, F. (2019). Introductory chapter: textile manufacturing processes. In <i>Textile manufacturing processes</i> . IntechOpen. Vankar, P. S. (2017). <i>Natural dyes for textiles: Sources, chemistry and applications</i> . Woodhead Publishing.						
Outcomes	The students gain knowledge in <ul style="list-style-type: none"> ➤ Dyeing and printing methods and principles of colour application. ➤ Develop knowledge in textile and garment processing sector. ➤ Obtain knowledge on chemical processing of cotton and blended materials. ➤ Analyze the parameters and categorize the recipes for chemical processing of textile materials. ➤ Categorize and select the appropriate techniques to process the yarn and fabrics. 					

Semester – IV						
Course code 22BFC4C2	Core Course-VI			T/P	C	H/W
	Garment Quality and Specifications			T	4	4
Objectives	<ul style="list-style-type: none"> ➤ To know about raw material quality control Specifications. ➤ To understand the importance of quality control in textiles and apparel industries. ➤ To study the apparel industry costing methods, types and calculation of fabric costing. ➤ To impart knowledge on principles of apparel costing and the factors involved for costing. ➤ To facilitate better understanding of apparel costing and foreign exchange management. 					
Unit – I	BASICS OF QUALITY CONTROL Definition and Scope of Quality Control – Establishing Merchandising Standards – Establishing Raw Material Quality Control specifications – Quality Control of Raw Material. Inspection system – 4 point, 10 point system					
Unit – II	QUALITY CONTROL SYSTEM Establishing Processing quality specification – Training Quality Control Personnel – The Quality Standard Control – Quality Control Inspection, Procedures for processing – Quality control of finished garments – Quality control and Government contacts – Quality Control for Packaging, Warehousing and shipping.					
Unit – III	BASICS OF PRODUCTION CONTROL Function of Production control – Production, Analysis – Quality Specifications – Quantitative specifications – Scope of Apparel Manufacturing Activity – Co-ordinating Departmental Activities – Distribution of Documents and Records.					
Unit – IV	PRODUCTION CONTROL SYSTEM Type of Control forms – Basic Production Systems – Principles for Choosing a Production System – Evaluating Production Systems – Flow Process Grids and Charts.					
Unit – V	COST CONTROL Function of Cost Control: Types of Costs and Expenses – Apparel Manufacturing Cost Categories – Sales Cost Control – Purchasing Cost Control – Production Cost Control – Administration cost control – Cost Ration Policies.					
Reference and Textbooks: Bédard, M. (2021). <i>Unraveled: The Life and Death of a Garment</i> . Portfolio/Penguin. Brahams, S. B. (2016). <i>The fundamentals of quality assurance in the textile industry</i> . Productivity Press. Gaspa, S., Michel, C., & Nosch, M. L. (2017). <i>Textile Terminologies from the Orient to the Mediterranean and Europe, 1000 BC to 1000 AD</i> . Lulu. com. Karthik, T., Ganesan, P., & Gopalakrishnan, D. (2016). <i>Apparel manufacturing technology</i> . CRC Press. Nayak, R., & Padhye, R. (Eds.). (2015). <i>Garment manufacturing technology</i> . Elsevier. Thomas E. Johnson. & Donna L. Bade. (2010). <i>Export Import Procedures & Documentation</i> . New York: Amacom. Tresnadi, C., & Sachari, A. (2015). Identification of values of ornaments in Indonesian batik in visual content of Nitiki game. <i>Journal of Arts and Humanities</i> , 4(8), 25-39. Uddin, F. (2019). Introductory chapter: textile manufacturing processes. In <i>Textile manufacturing processes</i> . IntechOpen.						
Outcomes	The students gain knowledge in <ul style="list-style-type: none"> ➤ Yarn and fabric properties of textile material and apply the tools and techniques of Quality management to manufacturing and services processes. ➤ Students will be able to understand the sustainability process required in textile and apparel industry. ➤ Relate the factors that decide the cost of apparel products. ➤ Apply knowledge in calculating the raw materials and accessories cost to derive the cost of basic apparel products. ➤ Obtain knowledge in financial management and budgeting process in apparel industry. 					

Semester - IV				
Course code	Core Practical-IV	T/P	C	H/W
22BFC4P1	Garment Construction Adult Wear – Lab	P	3	3
Objectives	<ul style="list-style-type: none"> ➤ The students are able to design and construct the garment for different age group of kids. ➤ To learn about the theme-based design garments. ➤ To acquaint students with various garments components by providing them the practical skills. ➤ To give knowledge of various finishing techniques related to stitching. ➤ To acquire knowledge about how to complete a garment with different styles. 			
Designing, Draft and construct the following Garments				
<ol style="list-style-type: none"> 1. Infant wears- Bib, Panty and Jabla 2. Baba suit / Romper. 3. Children’s frock - 2 variety 4. Saree Petticoat- Six Panel, Decorative Bottom. 5. Blouse- Front/Back Open, Fashioned Neck, Waist Band at Front, with Sleeve. 6. Salwar / Churidhar 7. Kameez with/ without Slit, with /without Flare, with/without Opening, with/ with out Panels, with/ without Sleeve. 8. Nightie / Maxi with / without fullness, with/without opening, with/without yokes, with/without puff sleeve. 9. Slack Shirt-with Collar, Half Sleeve, Patch Pocket. 10. Kalidhar Kurta -Kali Piece, Side Pocket, Round Neck, Half Open. 11. Pyjama/Bermudas-Elastic/Tape attached Waist, with/without fly. 12. One piece pant – fly attached, separate belt attached, front and back dart. . 				
Reference and Textbooks:				
<p>Cutting and sewing theory, Gayatri Verma, Kapil Dev, Computech Publication Ltd, India,2019.</p> <p>Pattern cutting and Making up, the professional approach, Martin M. Shoben and Janet P.Ward, Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai,1986.</p> <p>Routledge Taylor and Francis Group, London and New York, Revised edition,2011</p> <p>Winifred Aldrich, Metric Pattern Cutting for Women's Wear, 5th Edition, Blackwell Publishing, 2015</p> <p>Zarapker K. R, Zarapker System of Cutting, Navneet Publications (India) Ltd, Mumbai, 2012</p>				
Outcomes	The students are able to			
	<ul style="list-style-type: none"> ➤ Develop the designs by own and construct the garment design. ➤ Understand the basic concepts of patternmaking and kids wear. ➤ Students will gain the understanding regarding different garment components and their construction. ➤ Design and to construct complete garment. ➤ Develop patterns for men and woman using drafting method. 			

Semester - V				
Course code	Core Course-VII	T/P	C	H/W
22BFC5C1	Textile Testing	T	4	4
Objectives	<ul style="list-style-type: none"> ➤ To learn about fibre, yarn and fabric quality testing. ➤ Acquire better understanding importance of quality testing ➤ To learn the fibre testing methods of different fibre properties. ➤ To study the yarn and fabric properties. ➤ To understand the relationship of quality parameters with fabric end use 			
Unit – I	QUALITY CONTROL: DEFINITION AND ITS IMPORTANCE. Humidity: Definition and its influence on fiber properties Standard atmospheric condition, Standard testing atmosphere. Standard regain, Moisture content and regain. Measurement of atmospheric condition – wet and dry bulb Hygrometer and sling Hygrometer.			
Unit – II	FIBRE TESTING Fiber Testing: Fiber length – Baer sorter and Fibrograph, Fiber strength – Stelometer, Fiber fineness – Micronaire, Fiber maturity, Trash content - determination – Trash analyzer.			
Unit – III	YARN TESTING Yarn testing: Determination of yarn count – quadrant, Analytical & Beesley balance. Twist – Direction of twist and amount of twist, Strength of yarn-Single yarn strength tester. Crimp – Shirley crimp tester. Hairiness – Uster Hairiness tester.			
Unit – IV	FABRIC TESTING Fabric Testing: Fabric strength tester – Tensile strength, tearing strength & bursting strength. Abrasion – Types of abrasion – pilling – Martindale pill box tester.			
Unit – V	FABRIC TESTING Drape – Drape meter, Fabric stiffness - Shirley stiffness Tester, crease recovery – Shirley crease recovery tester. Thermal conductivity, water absorbency test, Water repellency tester.			
Reference and Textbooks: Angappan, P. & Gopalakrishnan, R. (2002). <i>Textile Testing</i> . Komarapalayam: SSM Institute of Textile Technology. Komarapalayam Booth, J.E. (2018). <i>Principles of Textile Testing</i> . New Delhi: CBS Publishers and Distributors Pvt. Ltd. Elliot B. Grover., Dame S. Hamby. (2016). <i>Handbook of Textile Testing and Quality Control</i> . New Delhi: Wiley India Edition. Kothari, V. K. (1999). <i>Testing and Quality Management (Vol.1)</i> . New Delhi: IAFL Publications. Koushik, C.V. & Chandrasekaran, R. (2004). <i>Textile Testing</i> . New Delhi: NCUTE Publication. Marjorie A. Taylor. (1990). <i>Technology of Textile Properties</i> . London: Forbes publications Ltd. Saville, B. P. (2002). <i>Physical Testing of Textiles</i> . Cambridge: Wood head Publishing Ltd.				
Outcomes	<ul style="list-style-type: none"> ➤ Learn the basic terms and definition of apparel testing and methods of evaluation. ➤ Understanding the various principles and methods are used for fibre, yarn, fabric testing. ➤ About the properties of various materials. ➤ Learn about the testing parameters and machineries. ➤ Understanding the garment and accessory testing methods. 			

Semester - V				
Course code	Core Course-VIII	T/P	C	H/W
22BFC5C2	Home Textiles	T	4	4
Objectives	<ul style="list-style-type: none"> ➤ To understand the importance of household materials and its application areas. ➤ To know about the various production centers in India. ➤ To understand the production techniques, various selection criterion such as raw materials, design and fabric type. ➤ To know about the varieties of Home textile products and fibre used for manufacturing the products. ➤ To understand the quality aspects for home textiles 			
Unit – I	Introduction to home textiles, definition, types of home textiles, factors influencing selection of home textiles, recent trends in home textiles.			
Unit – II	Floor and wall coverings – definition, types of floor covering –hard, soft and resilient floor coverings and uses and care and maintenance of floor coverings. Wall covering- definition, uses, care and maintenance of wall coverings			
Unit – III	Door and window treatments –definition and parts of door and windows, curtains and draperies – definition and materials used for curtains and draperies. Types of Curtains –draw, tailored, pleated, cafe, three tier curtains. Types of Draperies – swags. Accessories- rods hook, rails, racks, curtain tape pins			
Unit – IV	Soft furnishings for living and bed linen. Introduction to living and bedroom linens, types-sofa, sofa covers, wall hangings, cushion, cushion covers, upholsteries, bolster and bolster covers, bed sheets, covers, blankets, blanket covers, comfort and comfort covers, bed spreads, mattress and mattress covers, pillow and pillow covers, pads, uses and care.			
Unit – V	Soft furnishings for kitchen and dining, types of kitchen linens – kitchen towel, aprons, dish cloth, fridge, grinder and mixie covers, mittens, fridge holders –their uses and care. Types of dining table mat, dish/pot holders, cutlery holder, fruit baskets, hand towels-uses and care. Bathroom linens – types, uses and care			
Reference and Textbooks:				
Anita Tyagi, (2011). <i>Textiles for Apparel and Home Furnishing</i> . New Delhi: Sonali Publications.				
Cheryl Mendelson, (2005). <i>Home Comforts the Arts and Science Keeping House</i> . New York: Scroper Publisher.				
David Holloway, (2000). <i>The Essential Book of Home Improvement Techniques</i> . London: Marshals Publications.				
Ghosh Dr. Ashis Kumar. (2011). <i>Traditional Knowledge of Household</i> . New Delhi: Daya Publishing House.				
Hamlym, (2001). <i>Bed and Table Linen</i> . New York: Octopus Publishing Group Ltd.				
James Merrell, (1995). <i>Living with Decorative Textiles</i> . London: Thames and Hudson Ltd.				
Karthik, T. (2016). <i>Home Textiles</i> . New Delhi: Astral International Pvt Ltd				
T Rowe, <i>Interior textiles- Design and Developments</i> , Woodhead Publishing Pvt. Ltd, 2009				
Subrata Das, 2018, <i>Performance of Home Textiles</i> , Woodhead Publishing Pvt. Ltd, Second Edition				
Outcomes	The students are able to			
	<ul style="list-style-type: none"> ➤ Generalize knowledge about the varieties of home furnishing materials and finishing methods. ➤ Analyze the knowledge on suitability of furnishings care & maintenance of home furnishing materials. ➤ Determine the various treatments and finishes given for home textiles materials ➤ Analyze the advancements and developments in interior designing and home furnishing. ➤ Select the suitable technique for care and maintenance of home textiles products 			

Semester –V						
Course code 22BFC5C3	Core Course-IX			T/P	C	H/W
	Textile Care and Maintenance			T	4	4
Objectives	<ul style="list-style-type: none"> ➤ Impart knowledge about laundering for different fabrics. ➤ To study about the machines and equipment's used in the washing, storing and ironing process ➤ Impart knowledge on the types of wash care labels. 					
Unit – I	Laundering- different method of laundering, Laundry soaps and liquids- composition of soap, types of soap, soap less detergents, detergent manufacture, advantages of detergents. Fabric conditioner and its applications.					
Unit – II	Finishes – Stiffening Agents – Starch (cold water and hot water) Other stiffening agents, preparation of starch Laundry blues, and their application. Stain removal – common methods of removing stains.					
Unit – III	Washing – Points to be noted before washing. Machine – types semi-automatic and Fully automatic; Top loading and front loading; wash cycles in a washing machine Drying equipment's– Indoor and outdoor drying Iron box types - automatic iron box and steam iron. Ironing board – different types and iron setting for different types of fabric.					
Unit – IV	Laundering of different fabrics – cotton and linen, woolens, colored fabrics, silks, rayon and nylon. Special types of Laundry – waterproof coats, silk ties, leather goods, furs, plastics, lace.					
Unit – V	Storing – Methods of storing clothes, Best way to store clothes Dry cleaning – Benefits, differences between dry cleaning. Steps in dry cleaning process Care labels – Importance and Types - The International Care Labelling System.					
Reference and Textbooks:						
Durga Deulkar , <i>Household Textiles and Laundry Work</i> , Amla Ram & Sons, Delhi, 1951						
SusheelaDantyagi , <i>Fundamentals of Textiles and their Care-</i> Orient Longmann Ltd, 1996, Fifth Edition Wingate						
I B , <i>Textiles fabrics and their Selection</i> , Prentice-Hall Inc Publishers, 1946						
Mildred T. Tate and Glisson O, <i>Family Clothing</i> , John Wiley & Sons Inc, Illinois, 1961						
Seema Yadav, <i>Textbook of Textile and Laundry</i> , Anmol publication, 2011						
Outcomes	<ul style="list-style-type: none"> ➤ Interpret the preparatory process for fabric ➤ Discuss the stain removal methods and the care labels ➤ Analyse the methods of laundering 					

Semester - V						
Course code 22BFC5C4	Core Course-X			T/P	C	H/W
	Visual Merchandising			T	4	4
Objectives	<ul style="list-style-type: none"> ➤ To know about the retailing, store plan and importance of marketing strategies. ➤ To acquire knowledge about visual merchandising and planning to set up the display in the apparel sector ➤ To create an knowledge about merchandising ➤ To know about how merchandising used in sales & promotion ➤ To understand the role played by the fashion buying offices 					
Unit – I	INTRODUCTION TO MERCHANDISING Visual Merchandising – Definition and Function, History of visual merchandising, Role of visual merchandising, Understanding retail in India.					
Unit – II	STORE PLANNING AND FIXTURES Store planning and fixtures – Floor plan, The purpose of planning fixtures, types of fixture.					
Unit – III	CIRCULATION PLAN Circulation plan – Rules of circulation, Types of Circulation plans – Free flow, Grid, Race track, Herringbone and spin					
Unit – IV	MERCHANDISE PRESENTATION Merchandise presentation – meaning, principles of merchandise presentation, categories in merchandise presentation, Dominance factor in merchandise presentation, elementary of display – Store Exteriors and Interiors.					
Unit – V	WINDOW DISPLAY Promotional Display Vs Institutional Display, Types of Mannequins, Lighting, Visual Merchandising Tool Kit, Quality and process in Visual Merchandising.					
Reference and Textbooks: Bailey, S., & Baker, J. (2021). <i>Visual merchandising for fashion</i> . Bloomsbury Publishing. Bell, J., & Ternus, K. (2017). <i>Silent selling: best practices and effective strategies in visual merchandising</i> . Bloomsbury Publishing USA. Bailey, S., & Baker, J. (2021). <i>Visual merchandising for fashion</i> . Bloomsbury Publishing. Ebster, C., & Garaus, M. (2015). <i>Store Design and Visual Merchandising: Store Design and Visual Merchandising</i> . Business Expert Press. Martin M. Peglar (SVM). (2018). <i>Visual Merchandising and Display</i> . New York: Fairchild Publication.						
Outcomes	The students are able to <ul style="list-style-type: none"> ➤ Learn the store image, window display, mannequin and interior & exterior design. ➤ Acquire knowledge about on visual merchandising and principles ➤ Able to analyze the current trend and technology in the industry. ➤ Learn the layout of retail space, space assignment, product grouping, color, lighting, window display and elements of visual communication, including presentation method. ➤ Learn the art of creating, developing and executing merchandising. 					

Semester - V				
Course code	Core Practical-V	T/P	C	H/W
22BFC5P1	Textile Testing – Practical	P	4	6
Objectives	<ul style="list-style-type: none"> ➤ To learn the fibre testing methods of different fibre properties. ➤ To study the yarn and fabric properties and do experiment the above testing. ➤ To understand the relationship of quality parameters with fabric end use. ➤ To practice the various textile testing equipment in standard atmospheric conditions. ➤ To impart knowledge in basics of testing and the testing atmospheric conditions in a testing lab. 			
<p>I. YARN TEST</p> <ol style="list-style-type: none"> 1. To identify the yarn and fibers using binocular microscopic test 2. To determine the yarn count using single yarn twist tester. 3. To determine the yarn count using Beasley balance method. <p>II.FABRIC TEST</p> <ol style="list-style-type: none"> 4. To determine the thickness of a fabric using thickness tester. 5. To determine the stiffness of a fabric using stiffness tester. 6. To determine the drape of a fabric using drape meter. 7. To determine the shrinkage of a fabric using shrinkage template and scale. 8. To determine the strength of a fabric using tensile strength tester. 9. To determine the bursting strength of a fabric using bursting tester. 10. To determine the crease recovery of the fabric using crease recovery tester 11. To determine the rubbing fastness of a dyed fabric using Crock Meter with grey scale 				
<p>Reference and Textbooks:</p> <p>Angappan, P. & Gopalakrishnan, R. (2002). <i>Textile Testing</i>. Komarapalayam: SSM Institute of Textile Technology. Komarapalayam</p> <p>Booth, J.E. (2018). <i>Principles of Textile Testing</i>. New Delhi: CBS Publishers and Distributors Pvt. Ltd.</p> <p>Elliot B. Grover., Dame S. Hamby. (2016). <i>Handbook of Textile Testing and Quality Control</i>. New Delhi: Wiley India Edition.</p> <p>Kothari, V. K. (1999). <i>Testing and Quality Management (Vol.1)</i>. New Delhi: IAFL Publications.</p> <p>Koushik, C.V. & Chandrasekaran, R. (2004). <i>Textile Testing</i>. New Delhi: NCUTE Publication.</p> <p>Marjorie A. Taylor. (1990). <i>Technology of Textile Properties</i>. London: Forbes publications Ltd.</p> <p>Saville, B. P. (2002). <i>Physical Testing of Textiles</i>. Cambridge: Woodhead Publishing Ltd.</p>				
Outcomes	<p>The students get insight knowledge in</p> <ul style="list-style-type: none"> ➤ Testing of different types of textile materials using the relevant instrument. ➤ Testing the fibre, yarn and fabric with respective properties by using the instrument. ➤ Operate the equipment without any assistance while carrying out the testing of fibres, yarns and fabrics. ➤ Interpret the data more accurately on their own. ➤ Understand the importance of standard atmospheric conditions required for testing. 			

Semester - V				
Course code	Core Practical-VI	T/P	C	H/W
22BFC5P2	Computer Aided Designing (CAD) – Practical	P	4	6
Objectives	<ul style="list-style-type: none"> ➤ To learn the CAD software tools and its application. ➤ To develop pattern for different patterns of different designs and grade the patterns. ➤ Develop the Patterns styles using any CAD Software ➤ To grade the Patterns to various sizes and estimate the lay length and marker efficiency. ➤ To gain an understanding of the core concepts and technologies. 			
<p>CREATE THE FOLLOWING DESIGNS</p> <p>Motifs</p> <ol style="list-style-type: none"> 1. Embroidery Designs for Kerchiefs. 2. Necklines. 3. Chest Prints. 4. T-Shirt. <p>Children’s Garments</p> <ol style="list-style-type: none"> 1. Jabla 2. Frocks 3. Sun Suit <p>Women’s Garments</p> <ol style="list-style-type: none"> 1. One Piece Dress 2. Middi& Tops 3. Salwar Kameez <p>Men’s Garments</p> <ol style="list-style-type: none"> 1. T-Shirt 2. Shirt 3. Pant <p>Create Logos for Branded Companies. Create Label for Garments Companies.</p>				
<p>Reference and Textbooks:</p> <p><i>Fashion Design Drawing &Prensatation</i>, Ireland Patrick John, B T Batsford Ltd, 2006.</p> <p><i>Fashion Design Illustration: Children</i>, Ireland Patrick John, B T Batsford Ltd, 2003.</p> <p><i>Fashion Sketch Book</i>, Bina Abling, Fair Child Publication, New York,2006.</p>				
Outcomes	<p>The students are able to</p> <ul style="list-style-type: none"> ➤ Gain practical experience on pattern making in different garment marker planning and grading. ➤ Able to design and making pattern for kids, women’s and men’s wear by CAD Pattern Making Software. ➤ knowledge of different software used in patternmaking grading. ➤ know about internet surfing and will get fundamental knowledge of computer networking. ➤ Learn core concepts and technologies. 			

Semester - VI					
Course code	DSE-I		T/P	C	H/W
22BFC6E1	Garment Manufacturing Technology		T	6	6
Objectives	<ul style="list-style-type: none"> ➤ To study about sewing machine parts functions and its applications. ➤ To know the specialized machines used in garment industry. ➤ To impart knowledge of machines and tools used for sewing ➤ To learn about the various garment details and the way they are attached to finish a garment ➤ To learn different types of finishing in garment construction. 				
Unit – I	Planning, drawing and reproduction of the marker. The requirements of marker planning. Efficiency of the marker plan. The spreading of the fabric to form a lay. The requirement of the spreading process. Methods of spreading, nature of fabric packages. The cutting of fabric, objectiveness of cutting and methods of cutting				
Unit – II	The properties of seam, seam types, stitch types. Sewing machine feed mechanism, sewing machine needles, Sewing threads, fiber type, and construction of thread finishes. Thread sizing, thread packages, cost, properties and seam performance. Sewing problems, Problems of stitch formation. Problem of pucker, problems of Damage to fabric along the stitch line. Testing for sewability and Tailorability.				
Unit – III	Basic sewing machines and associated work aids, simple automation. The use of components & trims – Labels and motifs, lining, Interlining, wadding, lace, braids & elastics, Hooks and loop fastening, Seam binding and tape, Shoulder pad, Eyelets & laces, Zip fastener, Buttons, Tack buttons, Snap fasteners and Rivets, Performance properties of components and trims.				
Unit – IV	Fusing – Definition, advantages of fusible interlinings, Fusing process. The means of fusing, Fusing equipments, Methods of fusing, quality control in fusing. Alternative of fusible interlining.				
Unit – V	Pressing: the purpose of pressing, categories of pressing, means of pressing, pressing equipments and methods, pleating, permanent press. Pressing practices in Indian Industries				
Reference and Textbooks:					
Nayak, R., &Padhye, R. (Eds.). (2017). <i>Automation in garment manufacturing</i> . Woodhead Publishing.					
Nayak, R., &Padhye, R. (Eds.). (2017). <i>Automation in garment manufacturing</i> . Woodhead Publishing.					
Nayak, R., &Ratnapandian, S. (2018). <i>Care and maintenance of textile products including apparel And protective clothing</i> . CRC Press.					
Paula, A. (2021). <i>Gendered Capitalism: Sewing Machines and Multinational Business in Spain and Mexico,1850-1940</i> . Routledge.					
Richter, G., Raban, D. R., &Rafaeli, S. (2018, August). <i>Tailoring a Points Scoring Mechanism for Crowd Based Knowledge Pooling</i> . In Proceedings of the 51st Hawaii International Conference on System Sciences.					
Vilumsone-Nemes, I. (2018). <i>Industrial cutting of textile materials</i> . Woodhead Publishing.					
Outcomes	The students gain knowledge in <ul style="list-style-type: none"> ➤ Garment industry production process and its management process. ➤ Familiarizethedifferenttypesofmachinesandspecialattachmentsadoptedin garment industry. ➤ basic understanding of garments, machines and their use in apparel and fashion industry ➤ Students will be able to know about the special attachments and their functions. ➤ Students will develop an understanding of how different constructional tools help to make a perfect garment. 				

Semester - VI				
Course code	DSE-II	T/P	C	H/W
22BFC6E2	Boutique Management	T	6	6
Objectives	<ul style="list-style-type: none"> ➤ To acquaint the students for better managerial skills on Boutique ➤ To enable the students to understand the intricacies of retail business ➤ To make student understand the importance of displaying their work in the best possible way ➤ To prepare students for the world of fashion, where they can grab job opportunities by showcasing and explaining their talent through portfolio. ➤ To impart skills for portfolio presentations. 			
Unit – I	INTRODUCTION TO BOUTIQUE Boutique – definition – management Skills required to set up a boutique – identifying target market and customer – selection of boutique name – types of boutique – low- end and high- end boutiques.			
Unit – II	INFRASTRUCTURE AND VISUAL MERCHANDISING Choice of location and space management – infrastructure requirement – fashion accessories in boutique – boutique interior – visual merchandising – store layout – types of display – exterior display – interior display – tools for visual merchandising – signage – props – mannequins – fixtures and lightings.			
Unit – III	RESOURCE MANAGEMENT Staffing – selection of generalists and specialists – Customer relationship management – Man power planning – performance management – employee relations.			
Unit – IV	TOOLS AND MATERIALS Boutique marketing tools and promotional kit – material sourcing – bookkeeping for boutique and maintaining stock.			
Unit – V	FINANCIAL MANAGEMENT Project finance – cash control and cash flow analysis – managing and start up the boutique business – boutique visit – boutique project report.			
Reference and Textbooks: Biswas, T., Samadder, R., Gupta, K., & Nandi, S. (2021, September). <i>Security of Medical Data Against Adversaries in Internet of Medical Things</i> . In 2021 5th International Conference Briana Stewart, (2014). <i>Opening a boutique store: how to start your own boutique</i> . USA, NC: BullCity Publishing. GibsonG. Vedomani. (2012). <i>RetailManagement</i> . Mumbai: Jaico Publishing house. Jonny Golizia, D. (2021). <i>The Fashion Business: Theory and Practice in Strategic Fashion Management</i> . Routledge. on Electronics, Materials Engineering & Nano-Technology IEMENTech (pp. 1-6). IEEE. Rigaud-Lacresse, E., & Pini, F. M. (Eds.). (2017). <i>New luxury management: creating and managing sustainable value across the organization</i> . Springer. Vecchi, A. (Ed.). (2016). <i>Handbook of research on global fashion management and merchandising</i> . IGI global.				
Outcomes	The students are able to <ul style="list-style-type: none"> ➤ Understand the better managerial skills on Boutique. ➤ Enable the students to understand the intricacies of retail business. ➤ Students will be able to prepare their portfolio in digital as well as other modes of presentation ➤ Students work will be best showcased ➤ Discuss and explain their work professionally 			

Semester - VI				
Course code	DSE- III	T/P	C	H/W
22BFC6E3	Fabric Structure and Design	T	6	6
Objectives	<ul style="list-style-type: none"> ➤ To study about the different elements of weaving. ➤ To gain knowledge about weave effects. ➤ To know the special weaves and its application in textile design. ➤ To study about the various knit structure. ➤ To get knowledge on colour and weave effects 			
Unit – I	WOVEN DESIGN FUNDAMENTALS Introduction, Classification of Woven structures, Methods of weave Representation, Weave repeat, basic elements of a woven design, Types of draft plans. Weaves – Plain, Rib Twill, Satin and Sateen. End uses of the above weaves.			
Unit – II	HEAVY FABRICS Honey Comb - ordinary, brighten. Weaves – Huck a Back, Crepe and Mock Leno. End uses of the above weaves.			
Unit – III	FIGURED FABRICS Backed Fabrics - Warp and Weft, Difference between warp and weft backed fabrics. Extra warp and extra weft figuring – single and two colours, Difference between extra warp and extra weft figuring. End uses of the above weaves			
Unit – IV	PILE FABRICS Pile Fabric- Types of velveteen, Weft plush, Terry pile – 3 pile, 4 pile, 5 pile, 6 pile, length density and fastness of no pile. End uses of the above weaves.			
Unit – V	DOUBLE CLOTH Double Cloth- Classification, warp, Weft and centre stitched double cloth. Self-Stitched- back to Face. End uses of the above weaves.			
Reference and Textbooks: Ajgaonkar, B. (1998). <i>Knitting Technology</i> . Mumbai: Universal Publishing Corp. David J. Spencer. (2011). <i>Knitting Technology</i> . New Delhi: Woodhead Publishing India Pvt Ltd. Grosicki, Z.J. (2014). <i>Watson’s Textile Design and Colour – Elementary Weaves and Figured Fabrics</i> . Cambridge Woodhead Publishing Pvt Ltd. Grosicki, Z.J. (2018). <i>Watson’s Advanced Textile Design and Colour – Compound Woven Structures</i> . Cambridge: Woodhead Publishing Pvt. Ltd. Hayavadana, (2014). <i>Woven Fabric Structure Design and Product Planning</i> . Netherland: Elsevierscience& Technology.				
Outcomes	The students get insight knowledge <ul style="list-style-type: none"> ➤ Illustrate the elements of woven fabric design. ➤ Develop elementary fabric structures. ➤ About weave design. ➤ Develop colour and weave effects. ➤ Understand weave effects. 			

Semester - VI					
Course code	DSE-IV		T/P	C	H/W
22BFC6E4	Indian Traditional Textiles and Embroidery		T	6	6
Objectives	<ul style="list-style-type: none"> ➤ To learn the origin of costumes and study the ancient to modern time costume. ➤ To get an idea about the Indian traditional textiles and embroideries. ➤ To impart knowledge regarding traditional textiles of India. ➤ To enable students to understand use of these textiles in the field of fashion. ➤ To develop handicraft sector, increase handicraft exports and welfare of artisans. 				
Unit – I	INTRODUCTION TO INDIAN COSTUMES Indian costume – Introduction, Indian Costumes from the earliest times to the beginning of the historical period – Indus valley civilization costumes, Indo Aryans and Vedic Ages, Mauryan and the Sunga period, Satavahana period, Kushan period Mughal period.				
Unit – II	TRADITIONAL COSTUMES OF INDIA Introduction to traditional Indian dress. Costumes of Punjab, Himachal Pradesh, Gujarat, Rajasthan, Uttar Pradesh, Madhya Pradesh, Jammu and Kashmir, Tamil Nadu, Kerala, Andhra Pradesh,, Karnataka				
Unit – III	EMBROIDERIES OF INDIA Kashmir Embroidery, Kanthas of Bengal, Chambarummal of Himachal Pradesh, Chickenkari of Uttar Pradesh, Pulkhari of Punjab, Kasuthi Embroidery, Kutch Embroidery.				
Unit – IV	TRADITIONAL WOVEN TEXTILES Introduction to woven textiles of India – Brocades of Banaras, Himrus, AmrusBaluchari, Pithambar, Tamilnadu Saree. Types of woven Kashmir shawls – Do- shala, Do- rookha, Kasubha shawl				
Unit – V	TRADITIONAL PRINTED AND DYED TEXTILES Printed textiles – Kalamkari, Block printing, Roghan printing and other printed and painted textiles (Mata-mi-pachedi, Pabuji-ka-pad) Dyed textiles – Ikat, Patola, Bandhani, Laharia, Mashru.				
Reference and Textbooks: Biswas, A. (2017). <i>Indian costumes</i> . Publications Division Ministry of Information & Broadcasting. Gandhi, K. (Ed.). (2019). <i>Woven textiles: Principles, technologies and applications</i> . Woodhead Publishing. Haq, U. N., &Ite, T. A. (2022). Exploratory Study of Textile Undergraduates' Knowledge and Perception towards Eco-Friendly Clothing in Bangladesh. <i>Tekstilec</i> , 65(1). Kalaiya, V. B. (2019). <i>Documentation of Traditional Costomes of Rulers of Kachchh</i> (Doctoral dissertation, Maharaja Sayajirao University of Baroda (India)). Kumari, P. (2021). <i>Innovation in Design of Traditional Mashru Textile for Product Diversification</i> (Doctoral dissertation, Maharaja Sayajirao University of Baroda (India)).					
Outcomes	The students gain knowledge in <ul style="list-style-type: none"> ➤ History of costumes and garments of India. ➤ Traditional textiles and embroideries in India. ➤ Students will be able to differentiate between embroidery works of different states. ➤ Students will be able to use different technique in their collections. ➤ Students will be able to understand the problem, issues and other important conditions of craft men working on traditional textiles of different regions of India 				

Semester - VI					
Course code	DSE-V		T/P	C	H/W
22BFC6E5	Organization of Garment Unit		T	6	6
Objectives	<ul style="list-style-type: none"> ➤ Enable student to become a successful entrepreneur / manager in the future ➤ Impart knowledge on the organization of the various departments of a garment unit ➤ Gain a better understanding of a trading procedure 				
Unit – I	Entrepreneurship- definition, types, need for Entrepreneurs, qualities and types of Entrepreneurship. Management – Definition, Management as a process – Planning, organizing, Directing, Controlling, Co-ordination				
Unit – II	Institutions supporting entrepreneurs- DIC, NSIC, SISI, SIPCOT, TII, KVIC, CODISSIA, COMMERCIAL BANKS – SBI. Organizational structure of a garment unit – Hierarchical organization, production planning and control				
Unit – III	Different department in a garment unit – Design department, Finance department, purchasing department, Production department, Organizing different sections – hierarchy Personnel involved in all the departments, nature of the job.				
Unit – IV	Factory Design and layout – importance of factory design, factors affecting factory design, Types of buildings, (single and multi –storey) –advantages and limitation. Factory layout – Process, Product and combined layout, Design requirement				
Unit – V	Trade: Domestic trade vs. International trade - Export marketing of apparel - Major documents for exports - Export finance - Payment method - Logistics and shipping – Export and import policy				
Reference and Textbooks:					
Dinakarpagare, <i>Principles of management</i> . Delhi: Sultan Chand and Sons.					
Dr. C.B Gupta & Dr N.P. Srinivasan, (1997). <i>Entrepreneurship Development in India</i> . Delhi: Sultan Chand and Sons.					
Darlie O Koshy, (1997). <i>Garment Exports</i> .					
AJ Chester, (1998). <i>Introduction to clothing production management</i> . Wrenbury Associates LtHarold Carr and Barbara Latham, (1994). <i>The technology of clothing manufacture</i> . Blackwell Science.					
Outcomes	<ul style="list-style-type: none"> ➤ Interpret the meaning of entrepreneur and management ➤ Understand the organizational structure of a garment unit ➤ analyse the importance of factory design and its layout 				

Semester – VI				
Course code	DSE-VI	T/P	C	H/W
22BFC6E6	Fashion Business communication	T	6	6
Objectives	<ul style="list-style-type: none"> ➤ Impart knowledge on the underlying concepts of marketing and fashion marketing. ➤ Familiarize with the fashion products, consumer, communications and advertising. ➤ To study about the importance fashion business communication techniques. ➤ To understand the different promotional skills and fashion communication. 			
Unit – I	Fashion Marketing and communication Introduction, components of fashion marketing communications. Theoretical frameworks - communication strategies within the fashion industry, the significance of marketing communications to fashion marketing activity.			
Unit – II	Fashion marketing process The process of marketing communications development, models of mass communication, the role of marketing communication in consolidating brand position and influencing consumer perception of fashion brands. Globalization of fashion communication in terms of legal, social and cultural implications			
Unit – III	Advertising The role of advertising -encoding messages, advertising control bodies, creating and designing appropriate marketing communications strategies. Media planning, market research and account planning the advertising brief print advertising, editorial, photography. Creating a market position through strategic marketing communication.			
Unit – IV	Marketing promotion The role of communication in promoting sales - of public relations, sponsorships and endorsements, exhibitions, tradeshow and fashion shows. The role of communication in personal selling - direct marketing and e-marketing.			
Unit – V	International fashion marketing Communications, implementation and evaluation of fashion communication methods, impact of technology in fashion communication, regulatory and ethical issues in fashion marketing communication.			
Reference and Textbooks:				
<p>Agins, T. (2010). <i>The end of Fashion - How Marketing Changed the Clothing Business Forever</i>. New York: Harper Collins publishers.</p> <p>George E. Belch., Michael A. Belch. (2003). <i>Advertising and Promotion - An Integrated Marketing Communication Perspective</i>. New Delhi: Tata Mcgraw Hill India</p> <p>Hines, T. & Bruce, M. (2012). <i>Fashion Marketing - Contemporary Issues</i>. UK, Oxford: Butterworth – Heinemann</p> <p>Malcolm Barnard, (2013). <i>Fashion as Communication</i>. London: Routledge Publishers.</p> <p>Smith, P. R. & Taylor, J. (2005). <i>Marketing Communications - An Integrated Approach</i>. London:Kogan Page Publishers.</p>				
Outcomes	<ul style="list-style-type: none"> ➤ Understand the basic concepts of marketing and fashion marketing ➤ Describe the types of fashion products and the consumer behavior interpret various marketing strategies. ➤ Understand the significance of fashion communication. ➤ Acquire knowledge about on international fashion marketing communication. 			

Semester - VI				
Course code	DSE-VII	T/P	C	H/W
22BFC6E7	Industrial Garment Machineries and Equipment	T	6	6
Objectives	<ul style="list-style-type: none"> ➤ To understand special attachments of the industrial sewing machineries for high productivity ➤ Various equipments used in layout, ironing and packing in the garment manufacturing unit. ➤ To understand the importance of machineries and technology in garment construction. ➤ To study the different types of machines and stitch standards followed in industry. 			
Unit – I	Departments in Apparel manufacturing Unit: Merchandising, Human Resource, Industrial Engineering, Accountancy, Security, Electrical, Machine Maintenance, Accessory Stores, Fabric, Pattern making & Sampling, Cutting/Layout Sewing, Finishing, Quality Control, Packing, Final Inspection and Shipment.			
Unit – II	Garment industry machineries Types of Machineries involved garment manufacturing sector or Industry. General machineries <ul style="list-style-type: none"> ❖ Cutting machineries ❖ Sewing machineries, ❖ Finishing machineries. 			
Unit – III	Special attachments: Garment industry used some special attachment for high productivity. There are listed below Guide attachments and Position attachments.			
Unit – IV	Machine Layout Stitching operation wise layout and machineries used for shirt manufacturing, Trouser, T-shirt.			
Unit – V	Fusing and pressing equipment After garment making following machine and equipment used for fold the garment <ul style="list-style-type: none"> ❖ Fusing machine ❖ Ironing machine ❖ Pressing Equipment ❖ Sucking machine 			
Reference and Text Books:- Nayak, R., &Padhye, R. (Eds.). (2017). <i>Automation in garment manufacturing</i> . Woodhead Publishing. Vilumsone-Nemes, I. (2018). <i>Industrial cutting of textile materials</i> . Woodhead Publishing. Nayak, R., &Padhye, R. (Eds.). (2017). <i>Automation in garment manufacturing</i> . Woodhead Publishing. Richter, G., Raban, D. R., &Rafaeli, S. (2018, August). <i>Tailoring a Points Scoring Mechanism for Crowd Based Knowledge Pooling</i> . In Proceedings of the 51st Hawaii International Conference on System Sciences. Nayak, R., &Ratnapandian, S. (2018). <i>Care and maintenance of textile products including apparel and protective clothing</i> . CRC Press. Paula, A. (2021). <i>Gendered Capitalism: Sewing Machines and Multinational Business in Spain and Mexico, 1850-1940</i> . Routledge.				
Outcomes	<ul style="list-style-type: none"> ➤ Identify the industrial machineries involved in various garment process ➤ Classify the special attachments of the industrial sewing machineries for high productivity ➤ State the various equipments used in ironing and packing in the garment manufacturing unit. 			