

<b>Course code</b>	23BFCA1	<b>CARE AND MAINTENANCE OF TEXTILES</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - I (a)</b>			<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Basic knowledge about fabric and garment care</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. Gain a better understanding method in taking proper care of the clothing.						
2. Impart knowledge on machines and equipment's used in the washing, stoning and ironing process.						
3. Impart knowledge on the types of wash care labels and their meaning						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Identify suitable methods of washing, drying, ironing and storing					K1
CO2	Understand the wash care labels and act accordingly					K2
CO3	Appraise the types of equipment used in the care of fabrics					K3
CO4	Recognize the need for dry cleaning for fabrics					K2
CO5	Evaluate the methods and equipments to be used for a better life of clothes					K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Water and Laundry Soaps:</b> Water-hard and soft water, methods of softening water. Laundry soaps-Composition of soap types of soap, soapless detergents, detergent manufacture, advantages of detergents, Manufacturing process of soap and detergents					<b>12hours</b>
<b>Unit:2</b>	<b>Finishes and Stain Removal</b>					<b>12hours</b>
Finishes–Stiffening Agents –Starch(cold water and hotwater),Otherstiffeningagents,preparationofstarchLaundryblues,theirapplication. Stain removal common methods of removing stains; food stains, lead pencil, lipstick, mildew, nose drops, paint, perfume, perspiration/mildew, tar, turmeric and kum-kum.						
<b>Unit:3</b>	<b>Washing, Drying and Ironing</b>					<b>12hours</b>
Washing–Pointstobenotedbeforewashing.Machine–typessemi-automaticandFullyautomatic;Toploadingandfrontloading;washcyclesinawashingmachineDryingequipment's– Indoor and out door drying Ironbox–Partsandfunctionsofanelectricironbox;types-automaticironboxandsteamiron.Ironingboard – different types						
<b>Unit:4</b>	<b>Laundering of Different Fabrics</b>					<b>12hours</b>
Laundering of different fabrics– cotton and linen, woollens, coloured fabrics, silks, rayon and nylon. Special types of Laundry–waterproof coats, silk ties, leather goods ,furs, plastics, lace.						
<b>Unit:5</b>	<b>Storing, Dry Cleaning and Care Labels</b>					<b>12 hours</b>
Storing–Methods of storing clothes, Best way to store clothes Drycleaning–Benefits, differences between dry cleaning and laundry, Steps indry cleaning Carelabels –ImportanceandTypes-TheInternationalCareLabellingSystem,TheJapaneseCareLabelling System, The Canadian Care Labelling System, The European Care Labelling System, The American						

Care Labelling System	
	<b>Total Lecture hours</b>
	<b>60 hours</b>
<b>Text Books</b>	
1	Wingate IB, Textiles fabrics and their Selection, Prentice-Hall Inc Publishers, 1946
2	Fundamentals of Textiles and their Care-Susheela Dantiyagi, Orient Longmann Ltd, 1980
<b>Reference Books</b>	
1	Mildred T. Tate and Glisson O, Family Clothing, John Wiley & Sons Inc, Illinois, 1961
2	Durga Deulkar, Household Textiles and Laundry Work, Amla Ram & Sons, Delhi, 1951
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://tide.com/en-us/how-to-wash-clothes/how-to-do-laundry/your-comprehensive-guide-on-how-to-do-laundry#Step1">https://tide.com/en-us/how-to-wash-clothes/how-to-do-laundry/your-comprehensive-guide-on-how-to-do-laundry#Step1</a>
2	<a href="https://www.coats.com/en/Information-Hub/Care-Labels#:~:text=Labels%20should%20be%20designed%20based,5)%20Wringing%20%26%206)%20Drying">https://www.coats.com/en/Information-Hub/Care-Labels#:~:text=Labels%20should%20be%20designed%20based,5)%20Wringing%20%26%206)%20Drying</a>
3	<a href="https://www.customclothinglabels.com/uses/why-are-care-labels-so-important/#:~:text=Care%20labels%20are%20essential%20when,run%20could%20ruin%20the%20fabric.">https://www.customclothinglabels.com/uses/why-are-care-labels-so-important/#:~:text=Care%20labels%20are%20essential%20when,run%20could%20ruin%20the%20fabric.</a>
4	<a href="https://www.drycleaning.com.sg/blog/5-differences-between-dry-cleaning-and-laundry.html">https://www.drycleaning.com.sg/blog/5-differences-between-dry-cleaning-and-laundry.html</a>
5	<a href="https://www.rinse.com/blog/care/what-is-dry-cleaning/">https://www.rinse.com/blog/care/what-is-dry-cleaning/</a>
6	<a href="https://fleming.ca.uky.edu/files/clothing_storage.pdf">https://fleming.ca.uky.edu/files/clothing_storage.pdf</a>
7	<a href="https://www.home-storage-solutions-101.com/clothes-storage.html">https://www.home-storage-solutions-101.com/clothes-storage.html</a>

Cos	PO1	PO2	PO3	PO4	PO5	PO6
<b>C01</b>	L	L	L	L	L	L
<b>C02</b>	L	M	M	S	S	L
<b>C03</b>	L	M	M	M	M	L
<b>C04</b>	L	M	M	M	M	L
<b>C05</b>	L	L	M	M	M	L

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	23BFCAP1	<b>CARE AND MAINTENANCE OF TEXTILES- PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective - I (a)</b>			<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>
<b>Pre-requisite</b>	<b>Basic knowledge about fabric and garment care</b>					
<b>CARE AND MAINTENANCE OF TEXTILES-PRACTICAL</b>						
<b>Identification of Textile fibers</b>						
<ul style="list-style-type: none"> <li>• Visual appearance test</li> <li>• Microscopic Test</li> <li>• Flammability Test.</li> <li>• Solubility Test</li> </ul>						
<b>Stain removal</b>						
<ul style="list-style-type: none"> <li>• Vegetable stains</li> <li>• Tea, coffee, wine</li> <li>• Oil, Paint and grease stains</li> <li>• Ink, Chocolate, Blood</li> </ul>						
<ul style="list-style-type: none"> <li>☐ Study and collect the wash and care labels on fabrics</li> <li>☐ Preparation of sample for stiffening agent.</li> </ul>						
<b>Text book</b>						
1. WingateI B, Textile Fabrics And Their Selection , Prentice-Hall Inc Publishers, 1946.						
2.Fundamentals of Textiles and Care- Susheela Dantyagi, Orient Long mann Ltd, 1980						
<b>Reference Book</b>						
1. Mildred T.Tate And Glisson.O., Family Clothing, John Wiley & Sons Inc, Illiois,1961.						
2. Durga Deulkar, Household Textiles And Laundry Work, Amla Ram&Sons,Delhi.1951.						

<b>Course code:</b> 23BFCA2	<b>HOME TEXTILES</b>			<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective II</b>				<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Knowledge about choice of fabrics for Home Textiles</b>						
<b>Course Objectives:</b>							
The main objectives of this course are to:							
1. Impart knowledge on the various home textile products							
2. Gain insights on the bed linens, kitchen linens, bathroom linens							
3. Acquire better understanding on the choice of fabrics for the home textile products							
<b>Expected Course Outcomes:</b>							
On the successful completion of the course, student will be able to:							
CO1	Classify the home textile products						K2
CO2	Understand the types of floor and wall coverings						K2
CO3	Distinguish curtains and draperies						K4
CO4	Describe the types of soft furnishings						K1
CO5	Discover the types and functions of kitchen linen						K3
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>							
<b>Unit:1</b>	<b>Home Textiles – An Introduction</b>						<b>12hours</b>
Introduction to home textiles, definition, types of home textiles, factors influencing selection of home textiles, recent trends in home textiles							
<b>Unit:2</b>	<b>Floor and Wall Coverings</b>						<b>12hours</b>
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							
<b>Unit:3</b>	<b>Door and Window Treatments</b>						<b>12hours</b>
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-rod hook, rails, racks, curtain Tape pins							
<b>Unit:4</b>	<b>Soft Furnishings for Living and Bed Linen</b>						<b>12hours</b>
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.							
<b>Unit:5</b>	<b>Soft Furnishings for Kitchen and Dining</b>						<b>12hours</b>
Soft furnishings for kitchen and dining, types of kitchen linens– kitchen towel, aprons, dishcloth, fridge, grinder and mixie covers, mittens, fridge holders– their uses and care. Types of dining- table mat, dish/potholders, cutlery holder, fruit baskets, hand towels- Uses and care .Bathroom linens– types, uses and care							
<b>Total Lecture hours</b>						<b>60 hours</b>	

<b>Text Books</b>	
1	Home Comforts-The Arts and Science of Keeping Home, Cheryl Mendelson, Scriber, New York, 2005
2	Cushions and Pillows-Professional Skills-Made Easy, Hamlyn Octopus, Octopus Publishing Group, New York, 2001
3	The Ultimate Sewing Book 200 Sewing Ideas For You and Your Home, Magi Mc Cormick Gordon, Collins and Brown, London, 2002
<b>Reference Books</b>	
1	Design and make curtains, Heather Luke, New Holland publishers, London, 1999
2	Cornucopia of Cushions, Susie Johns, Apple Press, London, 1997
3	Art in Everyday Life, Harriet Goldstein and Vetta Goldstien, The Macmillian Company, 2004
4	Performance of Home Textiles, Subrata Das, Woodhead Publishing India Pvt. Limited, 2010
5	Home Furnishing, V. Ramesh Babu and S. Sundaresan, Wood head Publishing India Pvt. Limited, 2018
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.homestratosphere.com/types-curtains/">https://www.homestratosphere.com/types-curtains/</a>
2	<a href="https://bettersleep.org/mattress-education/mattress-accessories/pillow-types/">https://bettersleep.org/mattress-education/mattress-accessories/pillow-types/</a>
3	<a href="https://textilecourse.blogspot.com/2018/06/types-classification-home-textiles.html">https://textilecourse.blogspot.com/2018/06/types-classification-home-textiles.html</a>
4	<a href="https://www.fibre2fashion.com/industry-article/1769/home-textiles-a-review">https://www.fibre2fashion.com/industry-article/1769/home-textiles-a-review</a>
5	<a href="http://www.india-crafts.com/textile/home-textile.html">http://www.india-crafts.com/textile/home-textile.html</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	S	S	S	S	M	M
<b>CO2</b>	S	S	S	S	M	M
<b>CO3</b>	S	S	S	S	M	S
<b>CO4</b>	S	S	S	S	M	S
<b>CO5</b>	S	S	S	S	M	S

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	23BFCA P2	<b>HOME TEXTILES PRACTICAL</b>				<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective II</b>					-	-	2	2	
<b>Pre-requisite</b>	<b>Basic knowledge in sewing</b>								
<b>Course Objectives:</b>									
The main objectives of this course are to:									
<ol style="list-style-type: none"> <li>1. Understand the types of home textiles.</li> <li>2. Impart knowledge on the application of home textiles.</li> <li>3. Design and home textiles.</li> </ol>									
<b>Expected Course Outcomes:</b>									
On the successful completion of the course, student will be able to:									
CO1	Understand the types of home textiles							K2	
CO2	Analyse the parts and functions of home textiles							K4	
CO3	Create designs for types of home textiles and show variations							K6	
CO4	Construct home textiles							K6	
CO5	Apply colour combinations and fabric selection throughout the process							K4	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>									
<b>1.Preparation of Wall Hangings / Door Hanging (Design / Sketch 5 designs and construct one)</b>								<b>10 hours</b>	
<b>2.Preparation of Table linen set (Design / Sketch 5 designs and construct one)</b>								<b>20 hours</b>	
<ul style="list-style-type: none"> <li>• Tablecloth</li> <li>• Runner</li> <li>• Placemat</li> <li>• Table Napkin</li> </ul>									
<b>3.Preparation of Bed linens (Design / Sketch 5 designs and construct one)</b>								<b>15 hours</b>	
<ul style="list-style-type: none"> <li>• Bed sheets with Pillow Cover</li> </ul>									
<b>4. Preparation of Curtains and Draperies (Design / Sketch 5 designs and construct one)</b>								<b>15 hours</b>	
<b>Total Lecture hours</b>								<b>60 hours</b>	
<b>Text Books</b>									
1	Home Textiles, T Karthik and D Goplala krishnan, Daya Publishing House, 2018								
2	Home Furnishing, V. Ramesh Babu and S. Sundaresan, Woodhead Publishing India, 2018								
<b>Reference Books</b>									
1	Interior decorating effects, Stewart and sally Walton, Lorenz books, 2000								
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>									
1	<a href="https://lunaweddingandeventsupplies.com.au/blogs/news/types-of-tablecloth">https://lunaweddingandeventsupplies.com.au/blogs/news/types-of-tablecloth</a>								
2	<a href="https://valenciaextension.nmsu.edu/documents/housing--interior-design-id.pdf">https://valenciaextension.nmsu.edu/documents/housing--interior-design-id.pdf</a>								

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	M	M	S	S	S	M
CO2	M	S	M	S	S	S
CO3	L	M	S	M	M	S
CO4	M	M	S	S	M	S
CO5	L	M	S	M	L	S

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	23BFC A3	<b>FABRIC STRUCTURE AND DESIGN</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective III</b>			<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>	<b>Basic knowledge about weaving.</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
1. To learn the elements of woven design						
2. To study the different types of weave						
3. To understand the draft and lifting plan						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	To classify different types of weaves					K2
CO2	To draw the design, draft and peg plan of weaves.					K6
CO3	To differentiate between different type of weaves					K4
CO4	To construct different types of weaves					K6
CO5	Apply the methods of fabric representation					K3
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Elements of Woven Design</b>					<b>15hours</b>
Elements of woven design, Methods of fabric representation, Draft and lifting plan, Construction Of elementary weaves–plain, warp rib, weft rib, twill, modification of twills, satin and sateen weave derivatives						
<b>Unit:2</b>	<b>Types of Weaves</b>					<b>15hours</b>
OrdinaryandBrightenhoneycomb,itsmodification,Huckabackanditsmodifications,Crepeweaves, Mock leno						
<b>Unit:3</b>	<b>Figured Fabrics</b>					<b>15hours</b>
ExtrawarpandExtraweftfiguring–singleandtwocolours,planting,backedfabric,warpandweftbacked Fabrics						
<b>Unit:4</b>	<b>Pile Fabrics</b>					<b>15hours</b>
Pile fabric–Formation of pile–weft pile–plain back, twill back–length, density and fastness of pile–corduroy weft plush. Warp pile–Terry pile, with the aid of wires, face to face warp pile						
<b>Unit:5</b>	<b>Double Cloth</b>					<b>75hours</b>
Double cloth–Classification, Self stitched–Face to back, Back to face, Both. Centre stitched– warp and weft. Inter changing double cloth.						
					<b>Total Lecture hours</b>	<b>60 hours</b>
<b>Text Books</b>						
1	Gokarneshan N, Fabric Structure and Design, New Age International Publishers Ltd, New Delhi,200 4.					
2	Grosichkli Z Newness, Watson’s Advanced Textile Design, Butter Worths, London,1989.					
<b>Reference Books</b>						

1	Corbman BP, Textiles– Fibre to Fabric, International Students Edition, Mc.Graw Hill Book Co, Singapore, 1985
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643">https://textilelearner.blogspot.com/2011/06/weaving-weaving-mechanism_643</a>
2	<a href="https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain">https://textilelearner.blogspot.com/2012/07/basic-woven-fabric-structure-plain</a>
3	<a href="http://textilefashionstudy.com/category/fabric-manufacturing-technology-2">http://textilefashionstudy.com/category/fabric-manufacturing-technology-2</a>
4	<a href="http://www.warporweft.com/types-of-looms">http://www.warporweft.com/types-of-looms</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	S	M	S	S	S
<b>CO2</b>	M	S	L	S	S	S
<b>CO3</b>	M	S	M	S	S	S
<b>CO4</b>	L	S	M	S	S	S
<b>CO5</b>	L	S	L	S	S	S

\*S-Strong; M-Medium; L-Low



<b>Course code</b>	23BFCA P3	<b>FABRIC STRUCTURE AND DESIGN PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective III</b>			-	-	2	2
<b>Pre-requisite</b>	<b>Basic knowledge about fabric structure</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. To identify the different types of weaves and knits</li> <li>2. To analyse the fabric structure</li> <li>3. To understand the woven fabric design and loop structure of knitted fabric</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Draw the design, draft and peg plan of weaves.					K3
CO2	Understand the weaving components					K4
CO3	Analyze the design aspects in the weaving pattern					K2
CO4	Identify loop structures of knits samples					K4
CO5	Deduct knitting samples by unravel and graphic representation					K5
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Analyse the Following Fabric Structures</b>						<b>20 hours</b>
<ol style="list-style-type: none"> <li>1. Plain weave and its derivatives <ul style="list-style-type: none"> <li>• Warp rib</li> <li>• Weft rib</li> </ul> </li> <li>2. Twill Weave <ul style="list-style-type: none"> <li>• Right hand twill</li> <li>• Left hand twill</li> </ul> </li> <li>3. Satin and Sateen</li> <li>4. Honeycomb Weave</li> <li>5. Huck a Buck Weave</li> <li>6. Extra warp figuring</li> <li>7. Extra weft figuring</li> </ol>						
<b>Identify knitting samples by unravel and graphic representation</b>						<b>10 hours</b>
<ol style="list-style-type: none"> <li>1. Plain knit</li> <li>2. Rib knit (1x1 and 2x2)</li> <li>3. Pique</li> </ol>						
<b>Total Lecture hours</b>						<b>30 hours</b>
<b>Text Books</b>						
1	GokarneshanN, Fabric Structure and Design, New Age International Publishers Ltd, NewDelhi, 2004.					
2	Grosichkli Z Newness, Watson's Advanced Textile Design, Butter Worths, London,1989.					
3	Knitting Manufacture Technology, Anbumani, NewAge International,Chennai,2006					
4	KnittingandAppareltechnology,S.S.M.I.TCo-operativeSociety.2005					
<b>Reference Books</b>						
1	CorbmanBP, Textiles–FibretoFabric, InternationalStudentsEdition, Mc.GrawHillbookCo, Singapore,1985.					

2	KnittingTechnology,DBA Jgaonker,UniversalPublishingCorporation,1998
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://textilelearner.blogspot.com/2012/07/what-is-fabric-warp-weft-fabric.html">https://textilelearner.blogspot.com/2012/07/what-is-fabric-warp-weft-fabric.html</a>
2	<a href="http://textilefashionstudy.com/category/fabric-manufacturing-technology-2">http://textilefashionstudy.com/category/fabric-manufacturing-technology-2</a>
3	<a href="https://feltmagnet.com/textiles-sewing/How-To-Analyze-A-Woven-Fabric">https://feltmagnet.com/textiles-sewing/How-To-Analyze-A-Woven-Fabric</a>
4	<a href="https://www.textileschool.com/242/weaving-calculations/">https://www.textileschool.com/242/weaving-calculations/</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	S	M	S	S	S
<b>CO2</b>	M	S	M	S	S	S
<b>CO3</b>	L	S	S	S	S	S
<b>CO4</b>	M	S	S	S	S	S
<b>CO5</b>	M	S	S	S	S	S

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	23BFC A4	<b>TEXTILE WET PROCESSING</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective IV</b>			<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>
<b>Pre-requisite</b>		<b>Basic knowledge in textile finishing</b>				
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Prepare the fabric for finishing.</li> <li>2. Dye and print the fabrics using suitable dyes and prints.</li> <li>3. Prepare on Effluent and its impact</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Familiarize with the Process sequence in a textile industry					K2
CO2	Explain the types of finishes					K1
CO3	Discover the dyes and dyeing methods					K3
CO4	Understand the various printing methods					K2
CO5	Analyse the pollution created by the textile industry and the need for effluent treatment					K4
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>Unit:1</b>	<b>Wet Processing Process and Basic Finishes</b>					<b>15hours</b>
Process sequence of textile wet processing ;Finishes types– Basic finishes, Aesthetic finishes, Functional finishes and Special purpose finishes Basic Finishes– Singeing, desizing, scouring, bleaching and mercerizing–Process sequence and methods.						
<b>Unit:2</b>	<b>Aesthetic, Functional and Special Finishes</b>					<b>15hours</b>
Aesthetic finish–glazed, Moire, embossed, napped finish. Functional finish– Water repellent, flame retardant, antistatic finish. Special purpose finish–fragrance, antibacterial, stonewash and enzymewash in denim Recent trends – An introduction Micro encapsulation and nano finishes.						
<b>Unit:3</b>	<b>Dyes and Dyeing Machines</b>					<b>15hours</b>
Dyes–classification and suitability of dyes to the fabric, stages of dyeing– fiber, yarn, fabric and garment dyeing, Natural dyes and its significance. Dyeing machines–loose stock fiber bale– hank package–jigger–winch–HT&HP Beam, jet– Padding mangles. Garment dyeing machines.						
<b>Unit:4</b>	<b>Direct Printing</b>					<b>15hours</b>
Printing–Difference between dyeing and Printing. Preparation of Printing Paste, Properties and types of Thickeners. Direct Printing – Block Printing - History and techniques used. Screen Printing – Flat screen and Rotary screen, techniques used						
<b>Unit:5</b>	<b>Resist, Discharge Printing and Effluent Treatment</b>					<b>15hours</b>
Resist Printing–Tie and Dye and Batik; Process sequence and techniques. Discharge Printing, other methods–Digital Printing, Heat transfer printing Effluent Treatment–Pollution created by the processing unit, Process sequence in Effluent treatment Plant						

	<b>Total Lecture hours</b>	<b>75 hours</b>
<b>Text Books</b>		
1	Textile Chemistry, Paters R.H, Elsevier Publishing, 1967.	
2	Technology of Textile Processing, Shenai V.A., Sevak publications, Bombay, 1981.	
3	Textile Finishing, Shenai. V.A. Sevak Publications, Mumbai, 1999.	
<b>Reference Books</b>		
1	Functional Finishes, Menachem Lewin and Stephen B. Sello, Marcel Dekker, Inc., 1984.	
2	Textile Finishing, R.S. Prayag, Shree J Printers, India, 1994.	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>		
1	<a href="https://textilecourse.blogspot.com/2018/08/working-process-printing-">https://textilecourse.blogspot.com/2018/08/working-process-printing-</a>	
2	<a href="http://www.neoakruthi.com/blog/etp-for-textile-industry.html">http://www.neoakruthi.com/blog/etp-for-textile-industry.html</a>	
3	<a href="https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html">https://textilelearner.blogspot.com/2011/08/flow-chart-of-wet-processing-process.html</a>	
4	<a href="https://www.textileschool.com/343/fabric-wet-processing-techniques/">https://www.textileschool.com/343/fabric-wet-processing-techniques/</a>	
5	<a href="https://www.fibre2fashion.com/industry-article/1699/special--finishes-to-garment-an-overview">https://www.fibre2fashion.com/industry-article/1699/special--finishes-to-garment-an-overview</a>	

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	L	M	S	S	S	L
<b>CO2</b>	M	S	S	S	M	S
<b>CO3</b>	M	S	M	M	S	S
<b>CO4</b>	M	S	S	S	S	S
<b>CO5</b>	L	L	S	M	M	L

\*S-Strong; M-Medium; L-Low

<b>Course code</b>	23BFC AP4	<b>TEXTILE WET PROCESSING PRACTICAL</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
<b>Elective IV</b>			-	-	2	2
<b>Pre-requisite</b>	<b>Basic knowledge in Textile Wet Processing</b>					
<b>Course Objectives:</b>						
The main objectives of this course are to:						
<ol style="list-style-type: none"> <li>1. Prepare the fabric for dyeing and printing.</li> <li>2. Dye the fabric using suitable dyes.</li> <li>3. Print the fabrics with direct and resist printing methods.</li> </ol>						
<b>Expected Course Outcomes:</b>						
On the successful completion of the course, student will be able to:						
CO1	Modify the fabric properties by desizing,bleaching,scouring,and mercerizing				K2	
CO2	Apply and use direct, reactive, vegetable and vat dye to the cotton fabric				K1	
CO3	Apply acid and basic dye to silk fabric				K3	
CO4	Analyze print designs with direct printing method–block and stencil				K4	
CO5	Create print designs with resist printing–Tie and dye/batik				K6	
<b>K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create</b>						
<b>1.PreparationofSamplesforProcessing</b>						<b>10hours</b>
<ul style="list-style-type: none"> <li>• Desizing</li> <li>• Scouring</li> <li>• Mercerising</li> <li>• Bleaching</li> </ul>						
<b>2.DyetheGiven Fabric Using Suitable Dye</b>						<b>10hours</b>
<ul style="list-style-type: none"> <li>• Direct Dye</li> <li>• Basic Dye</li> <li>• Acid Dyes</li> <li>• Reactive Dyes</li> <li>• Vegetable Dyes(anyone)</li> <li>• Vat Dye</li> </ul>						
<b>3.Print the Fabric Using Suitable Dyes /Pigments</b>						<b>10hours</b>
<ul style="list-style-type: none"> <li>• Block Printing–Wooden and Vegetable Blocks</li> <li>• Stencil Printing</li> <li>• Tie and Dye(use any three tying methods)</li> <li>• Batik Printing</li> </ul>						
<b>Total Lecture hours</b>						<b>30hours</b>
<b>Text Books</b>						
1	An Introduction to Textile Finishing, Marsh. J.T, Chapmanandhall Ltd, London, 1948.					
2	ShenaiV.A.,TechnologyofTextileProcessing,Vol.III,V,VI,VIISevakpublications, Bombay,1981.					
<b>Reference Books</b>						
1	Simple textile dyeing and Printing, Nora Proud, Bats ford Publisher, London, 1974.					
2	ScienceandtechnologyofTextileDyeingandColouring,S.P.Mishra,NewAgeInternational(p)Ltd					

Publishers, 2016.	
<b>Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]</b>	
1	<a href="https://www.youtube.com/watch?v=whm0UxZ9gnQ">https://www.youtube.com/watch?v=whm0UxZ9gnQ</a>
2	<a href="https://www.hamstech.com/blog/significance-of-dyeing-printing-in-fashion-designing/">https://www.hamstech.com/blog/significance-of-dyeing-printing-in-fashion-designing/</a>

<b>Cos</b>	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>
<b>CO1</b>	M	M	S	S	S	M
<b>CO2</b>	M	S	M	S	S	S
<b>CO3</b>	L	M	S	M	M	S
<b>CO4</b>	M	M	S	S	M	S
<b>CO5</b>	L	M	S	M	L	S

\*S-Strong; M-Medium; L-Low