GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Diploma in Engineering

Level: Diploma

Branch: Computer Aided Costume Design and Dress Making

Course / Subject Code: DI01051011

Course / Subject Name: Basics of Clothing & Wardrobe Planning

w. e. f. Academic Year:	2024-25
Semester:	1st
Category of the Course:	BSC

Prerequisite:	
Rationale:	Today's fashion industry is versatile changing its trends rapidly, which calls for a quick response in the production of garments. This course will provide sound knowledge of the history and components of sewing machines vital for maintenance, troubleshooting, and its efficient use with understanding of industry-specific terminologies, measuring, marking, sewing, and cutting tools. It will also provide knowledge of wardrobe planning and selection aids in creating functional and versatile wardrobes. It is designed to develop skills in students related to sewing using non-automatic machine, application of appropriate constructional stitches, seams, shaping techniques, trims, and components essential for garment design and production.

Course Outcome:

After Completion of the Course, Student will able to:

No.	Course Outcomes	RBT Level
01	Define specific terminologies related to clothing industry.	R
02	Make use of suitable measuring, marking, sewing & cutting tools for apparel manufacturing.	A
03	Describe history and parts of sewing machines used in apparel industry.	U
04	Construct fabric samples using appropriate hand stitches, machine stitches, shaping techniques, trims and component.	A
05	Create a functional, versatile and sustainable wardrobe.	C

Revised Bloom's Taxonomy (RBT)

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Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
				Theory		Tutorial / Practical		
L	**T**	**PR**	**C**	ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
3	0	2	4	70	30	20	30	150

Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	**Clothing Terminology** 1.1. Importance of clothing terminology. 1.2. Terminologies associated with clothing: Fabric widths, Grain lines, Straightening, Shrinkage, Seam, Seam allowances, Selvedge, Arm scye, Bias, Gusset, Hem, Crotch, in seam, Yoke, Piping, Facing, Lining, Interlining, Fasteners, Trimmings.	05	10
2.	**Non-Automatic tools for garment manufacturing** 2.1 Measuring Tools: Measuring tape, Tailor's square, Yardstick, Clear ruler (see through ruler), French curve Set, set square, Flexible curve ruler, sewing gauge. 2.2 Marking tools: Chalk pencil, Pencil, Fiber pen, disappearing pens, Children's washable marker, Tracing wheel, Fabric carbon paper, Tailor's chalk, Pattern Notcher, Marking with soap. 2.3 Cutting tools: Small scissor, Big shears, Thread trimmers, Pinking shears, Stitch opener, Rotary cutter, surgical blades. 2.4 Sewing tools: Bobbin & Bobbin case, Machine sewing needles, Hand sewing needles. 2.5 Miscellaneous tools: Thimble, Pins and Pin cushions, Ironing board, Iron, Bobbin winder.	10	24
3.	**Sewing Machine** 3.1 History of sewing machine. 3.2 Types of sewing machine: Half Shuttle sewing machine, Full Shuttle sewing machine	10	18

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Unit No.	Content	No. of Hours	% of Weightage
	3.3 Parts of sewing machine and its functions.		
	3.4 Operation of sewing machine.		
	3.5 Care & Maintenance of sewing machine.		
4.	**Clothing Construction and its components** 4.1 Hand stitches: Basting, Running stitch, Different types of hemming stitches (Blind hemming stitch, Simple hemming stitch). 4.2 Machine stitches: Plain Seam, Curved Seam, Cornered, to join an inward corner, Trimming, to trim corner, Clipping, Hand overcast, Zigzagged, Bias bound, French seam, Flat felled seam, Self-bound seam, Corded seams, Lapped seams, Fagotted seam, Double topstitched seam, Welt seam, Tuck seam, Slot seam. 4.3 Shaping techniques: Darts, Tucks, Pleats, Gathers, Shearing, Smocking, Ruffles. 4.4 Garment Components: Sleeves (Set in and Non-Set in), Collars (Flat and Raised), Pockets (Patch, Side, Double welt pocket, Welt pocket, Flap pocket, Inseam pocket, Plackets (Open and Closed), Miscellaneous (lace, braid, elastic, hook and loop fastening, Velcro, seam binding and tape, eyelets, zipper, buttons, tack buttons, snap fasteners and rivets).	10	24
5.	**Wardrobe Management** 5.1 Meaning and definition of wardrobe planning. 5.2 Importance of wardrobe planning. 5.3 Basic steps of wardrobe planning. 5.4 Basic principles to build a perfect wardrobe. 5.5 Lifestyle analysis. 5.6 Pre-existing wardrobe analysis. 5.7 Factors affecting wardrobe collection: Economical, Psychological, Sociological and other factors affecting clothing selection.	10	24
	Total	**45**	**100**

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Suggested Specification Table with Marks (Theory):

Distribution of Theory Marks (in %)					
R Level	**U Level**	**A Level**	**N Level**	**E Level**	**C Level**
10	**18**	**48**	**--**	**--**	**24**

Where R: Remember; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create (as per Revised Bloom's Taxonomy)

References/Suggested Learning Resources:

(a) Books:

1. Visual Design in dress by Marian L Davis Published by: Prentice Hall, Upper Saddle River, NJ 07458. (ISBN: 0-13-112129-4)
2. The Art of Sewing by Anna Jacob Thomas Published by: UBS Publishers Distributers Limited, New Delhi. (ISBN: 81-85944-75-X)
3. Fashion Terms and Styles for Women's Garments by A. W. Koester & N.O. Bryant Published by: Wiley India, New Delhi. (ISBN: 9788126518951)
4. New Complete Guide to Sewing Reader's Digest, Canada.
5. Clothing construction &-. Wardrobe planning by Dora S. Lewis, Mabel Goode Bowers & Marietta Kettunen Published by: Macmillan Company, New York 1960 (ASIN B0007ELJRW)
6. Wardrobe strategies for women by Judith Rasband Published by: Delmar publishers, London. (ISBN: 9781563672590)

(b) Open-source software and website:

1. https://www.usha.com/sites/default/files/sewing_tutorials/indian-garment-design-course-book.pdf
2. https://cbseportal.com/ebook/vocational-books-fashion-design-and-garment-technology
3. https://www.style-makeover-hq.com/wardrobe-planning.html
4. https://anuschkarees.com/blog/2014/03/16/how-to-build-the-perfect-wardrobe-10basic-principles

Suggested Course Practical List:

Sr. No.	Practical List	Hours
1	Prepare samples of Basting, Blind hemming and Simple hemming using hand stitches on selected fabric.	04

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2	Prepare samples of Plain Seam, Curved Seam, French Seam, Flat felled Seam, Self-bound Seam, Lapped Seams, Welt Seam using machine stitches on selected fabric.	06
3	Prepare samples of neck line finishing using piping and shape facing	04
4	Prepare samples of Patch pocket	02
5	Prepare samples of open placket	03
6	Prepare samples of shaping technique (Simple dart, fish dart, vertical tuck, knife pleat, box pleat and gathers)	07
7	Fix fasteners such as button and button hole, hook and eye on the fabric sample	04
		30 Hrs.

List of Laboratory/Learning Resources Required:

Drafting table, Cutting table, half shuttle and full shuttle sewing machine

Suggested Project List:

1. **Seams**: Prepare 5-6 seams samples mentioned in theory and not covered in practical.
2. **Garment components**: Collect pictures of various garments. Identify and name the garment components in it.
3. **Shaping techniques**: Select 5-6 stitched garments. Identify and name different shaping techniques used in the selected garments.
4. **Wardrobe planning:** Plan wardrobe for an individual keeping in mind his/her age-group and gender.

Suggested Activities for Students: If any

1. Assign internet-based assignments.
2. Give seminar on any relevant topic.
3. Assign teacher guided self-learning activities.

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