

STATE BOARD OF TECHNICAL EDUCATION, BIHAR**Scheme of Teaching and Examinations for****IVth SEMESTER DIPLOMA IN COMPUTER AIDED COSTUME DESIGN AND DRESS MAKING****(Effective from Session 2022-23 Batch)****THEORY**

Sr. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME	EXAMINATION – SCHEME							Credits
				Periods per Week	Hours of Exam.	Teacher's Assessment (TA) Marks (A)	Class Test (CT) Marks (B)	End Semester Exam. (ESE) Marks (C)	Total Marks (A+B+C)	Pass Marks ESE	
1.	Pattern Making	2050401	03	04	10	20	70	100	28	40	03
2.	Draping	2050402	03	03	10	20	70	100	28	40	03
3.	Basics of Fashion	2050403	03	04	10	20	70	100	28	40	03
4.	Computer Graphics for Garment Designing	2050404	03	03	10	20	70	100	28	40	03
5.	Indian Textiles & Surface Embellishment	2050405	03	03	10	20	70	100	28	40	03
Total: - 15							350	500			15

PRACTICAL

Sr. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME	EXAMINATION – SCHEME					Credits	
				Periods per Week	Hours of Exam.	Practical		Total Marks		Pass Marks in the Subject
						Internal (PA)	External (ESE)			
6.	Pattern Making and Draping Lab.	2050406	04	03	15	35	50	20	02	
7.	Clothing Construction Lab.-II	2050407	04	04	15	35	50	20	02	
8.	Computer Graphics for Garment Designing Lab.	2050408	04	03	15	35	50	20	02	
Total: - 12							150		06	

TERM WORK

Sr. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME	EXAMINATION – SCHEME				Credits
				Periods per week	Marks of Internal Examiner (PA)	Marks of External Examiner (ESE)	Total Marks	
9.	Indian Textiles & Surface Embellishment (TW)	2050409	02	15	35	50	20	01
10.	Course Under Moocs / Swayam / Others (T.W)	2050410	04	15	35	50	20	02
Total:- 06						100		03
Total Periods per week Each of duration one Hours = 33						Total Marks = 750		24

PATTERN MAKING

Subject Code 2050401	Theory			No of Period in one session:42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	100	
	03	—	—	TA	:	10	
				CT	:	20	

RATIONALE: Today's fashion industry is versatile and rapidly changing in trends and therefore quick response of production is very much essential. Flat pattern technique and Drafting are the most important techniques employed in fashion garment industry since its inception. Therefore, a steep demand of professional and technically educated workforce of advanced pattern designing is one of the basic human resources of garment production industry. Aim of introducing this subject is to prepare students with a professional approach of flat pattern and drafting techniques, relevant to today's fashion garment making industry. Introduction of this course is a step forward in educating students in synchronization with the needs of today's garment industry.

Course Outcomes (Cos): Students will be able to

- Use flat pattern and drafting method of pattern making.
- Design & construct various types of sleeves, collars, cuffs and skirts.
- Prepare dress and trouser blocks.
- Prepare appropriate patterns to design fashioned garments.
- Draft and grade lower block for men and women as per requirement.
- Develop contoured garments of various types for different applications.

CONTENTS : THEORY

	Name of the Topic	Hrs	Marks
Unit-1	<p>1. <u>Introduction to Pattern making</u></p> <p>1.1 Importance of pattern making.</p> <p>1.2 Methods of pattern making.</p> <p>1.2.1 Flat pattern method (i) Pivot method, (ii) Slash method.</p> <p style="padding-left: 20px;">1.2.1.1 Material used for flat pattern methods.</p> <p style="padding-left: 20px;">1.2.1.2 Principles of flat pattern method, its advantages and disadvantages.</p> <p>1.2.2 Size drafting method (Give idea through demonstration on dress form).</p> <p>1.2.3 Drafting method (Upper & Lower Block)</p> <p>2. <u>Introduction to Blocks</u></p> <p>2.1 Definition of block.</p> <p>2.2 Types of blocks: Standard block , Simplified block, Tailoring block, Trade block, Primary block and Secondary block.</p> <p>2.3 Importance of blocks, off figure drafting.</p>	05	05
Unit-2	<p>Garment Components</p> <p>4.1 Definition, Drafting of Basic Sleeves and types of sleeves.</p> <p style="padding-left: 20px;">4.1.1 Set in sleeves and its varieties.</p> <p style="padding-left: 20px;">4.1.2 Non set in sleeves and its varieties.</p> <p>4.2 Definition and Drafting of Basic Shirt & Band Collar</p> <p>4.3 Types of Collars.</p> <p style="padding-left: 20px;">4.3.1 Flat Collars and its varieties.</p> <p style="padding-left: 20px;">4.3.2 Raised Collars and its varieties.</p>	10	15

	<p>4.3.3 Varieties in neck-lines without Collars.</p> <p>4.4 Definition of Cuffs.</p> <p>4.4.1 Varieties of cuffs- detachable cuff, Gauntlet cuff, barrel cuff, Beret cuff, Rollup cuff, French cuff, Button loop cuff.</p>		
Unit-3	<p>Introduction to skirt.</p> <p>5.1 Definition of Skirt and Drafting of Basic Lower Blocks;</p> <p>5.2 Classify various types of skirts according to its length.</p>	05	10
Unit-4	<p><u>Techniques of Drafting of Block</u></p> <p>1. Children Block</p> <p>1.1 Drafting of children block for boy (8- 10 years).</p> <p>1.1.1 Development of basic children Shirt from bodice block and its variations.</p> <p>1.2 Drafting of children block for girl (6- 8 years).</p> <p>1.2.1 Girl's block variation Dress/frock etc.</p> <p>2. Men's trouser block</p> <p>2.1 Drafting of trouser block for men & its test fit.</p> <p>3. Women's trouser block</p> <p>3.1 Drafting of trouser & skirt block for women & its test fit.</p> <p>4. Contour Fit Blocks</p> <p>4.1 Development of Contour fit block from bodice block.</p> <p>4.2 Contour fit variations – corset, halter, empire line, evening gown / dress etc.</p> <p>4.3 Development of Sleeve for contour fit block.</p> <p>4.4 Design and construct contour fit garment</p>		
Unit-5	<p>1. Techniques of Drafting of Men's Shirts.</p> <p>1.1 Drafting of Men's Shirt and its variations.</p> <p>1.1.1 Drafting of formal shirt.</p> <p>1.1.2 Drafting of casual shirt.</p> <p>2. Techniques of drafting of Salwar & Churidar</p> <p>2.1 Drafting of Indian bifurcated garment for women & its test fit.</p> <p>2.1.1 Salwar & Churidar and its variations as per trend.</p>		
Unit-6	<p>1. Adaptation of Indian Kurta from Torso Block.</p> <p>1.1 Adaptation of dress blocks into <i>Indian Kurta</i>, princess line <i>kurta</i> etc. In different fits (fitted, semi fitted and loose fit).</p> <p>2. Adaptation of trouser block (male/female) in variations</p> <p>2.1 Adaptation of Trouser block (male/ female) to its variations: Flared trouser, Short, Capri, A-line, Umbrella, Pegged top.</p>		
Unit-7	<p>Manual grading</p> <p>7.1 Introduction to manual grading- grading concepts, principles of grading, terminology, zero point, type of grading methods.</p> <p>7.1.1 Grading of single dart basic bodice block by nest method (two size up - one size down).</p> <p>7.1.2 Grading of Basic skirt block by nest method (two size up - one size down).</p> <p>7.1.3 Grading of men's trouser by nest method (two size up - one size down).</p>		
Unit-8	<p>Sari blouses</p> <p>8.1 Designing of Choli blouse/ princess line/ blouse variation as per current trend.</p> <p>8.2 Drafting of 3 dart blouse by drafting method and its test fit.</p> <p>8.3 Construct Choli blouse/ princess line/ blouse variation as per current trend and its test fit</p>		

List of Recommended Books

S. No.	Title of Books	Author	Publication
1	Pattern making for Fashion design	Armstrong, Helen Joseph	Prentice Hall
2	The Art of Fashion Draping	Connie Amaden-Crford	Fair Child Books
3	Pattern Cutting and Making up	Martin M Shoben & Janet P. Ward	Routledge
4	Metric Pattern Cutting for Children's Wear	Winifred Aldrich	Blackwell Science
5	Metric Pattern Cutting for Children's Wear and baby wear	Winifred Aldrich	Wiley-Blackwell
6	Pattern Design for Children's clothes	Gloria Mortimer-Dunn	B T Batsford, London
7	Childrenswear Design	Hilde Jafee, Rosa Rosa	Fair Child Books
8	Metric Pattern Cutting for men's wear	Winifred Aldrich	Wiley-Blackwell
9	Shirt Making	David Page Coffin	
10	The practical guide to patternmaking for fashion designers	Lori A. Knowles	Fair Child Books
11	Pattern Grading for Women's Clothes	Gerry Cooklin	Wiley
12	Grading Techniques for Modern Design	Jeanne Price & Brenard Zamkoff	Fairchild Publications
13	Fabric, Form and Flat pattern Cutting	Aldrich Winifred	Blackwell Publication
14	Pattern Cutting and Making up	Martin Shoben and Janet Ward	Butter Worth
15	More Dress Pattern Designing	Aldrich Winifred	Blackwell Science

DRAPING

Subject Code 2050402	Theory			No of Period in one session:			Credits 03
	No. of Periods Per Week			Full Marks	:	100	
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

RATIONALE: Today's fashion industry is versatile and rapidly changing in trends and therefore quick response of production is very much essential. Flat pattern technique and Draping are the most important techniques employed in fashion garment industry since its inception. Therefore, a steep demand of professional and technically educated workforce of advanced pattern designing is one of the basic human resources of garment production industry. Aim of introducing this subject is to prepare students with a professional approach of flat pattern and draping techniques, relevant to today's fashion garment making industry. Introduction of this course is a step forward in educating students in synchronization with the needs of today's garment industry.

Course Outcomes (Cos): Students will be able to

- Apply the skill of the draping method of pattern making to create various patterns.
- Identify grain and understand to follow the grain to achieve perfect fit and design.
- Design and create various silhouettes by draping.
- Analyse & evaluate different methods to produce a flat pattern from a basic drape.

CONTENTS : THEORY

	Name of the Topic	Hrs	Marks
Unit-1	1. Introduction to Draping 1.1 Importance of Draping 1.2 Methods of Draping 1.2.1 Draping method (Give idea through demonstration on dress form) 1.2.2 Draping in customized garments.		
Unit-2	Introduction to front and back bodice through draping 2.1 How to handle fabric directly on body form. 2.2 Dart formation and manipulation on bodice through draping 2.3 Contemporary designs for tops using draping techniques		
Unit-3	Techniques of Draping 3.1 Material used for Draping methods. 3.2 Methods of Draping: (i) Pivot method, (ii) Slash method. 3.3 Principles of Draping, its advantages and disadvantages.		

Unit-4	Draping Components 4.1 Pinning 4.1.1 Trimming 4.1.2 Clipping 4.2 Creating shapes using darts and tucks 4.3 Adding volume using pleats and gathers 4.3.1 Handling complex curves 4.3.2 How to use support elements such as shoulder pads , under layers and petticoats 4.3.3 How to handle bias draping.		
Unit-5	Techniques of Draping of Torso Block. 5.1 Development of torso/dress block by draping method. 5.1.1 Development of Shift (semi fit) and box fit (loose fit) from sheath fit(close fit) torso by using flat pattern making technique and development of their slopers for design adaptation.		
Unit-6	Techniques used in sewing of the Draped muslin 5.1 How to mark the seam lines darts etc while still on the body form 5.2 How to correctly remove the muslin from the body form 5.3 How to pin and stitch the final garment		

Text Reading:

- **Draping by Fairchild.**

BASICS OF FASHION

Subject Code 2050403	Theory			No of Period in one session : 42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

RATIONALE:

This course helps in understanding concept of fashion and the factors that affect fashion. It enables the students to familiarize with fashion terminology. Understanding of the fashion trends is must for garment designers to make their designs acceptable in market. Every costume designer should know about fashion and latest fashion trends if he/she wants his/her products to be appreciated by the consumers. This course therefore helps the students to familiarize with fashion capitals, fashion brands, fashion designers and consumer segmentations in order to understand the nuance of fashion as a global phenomenon affecting lifestyle and commerce. This will help to keep themselves updated with knowledge and developments in fashion world. Thus this is a very important course for students of CACD&DM programme.

Course Outcomes (Cos): Students will be able to

- Distinguish between fashion, style and trend.
- Interpret fashion theories and fashion cycle.
- Apply different elements of fashion on garments.
- Interpret factors affecting fashion.
- Choose the clothing / fashion to suit the occasion.

CONTENTS: THEORY

UNIT	Name of the Topic	Hrs	Marks
UNIT-1	Introduction to fashion 1.1 What is fashion 1.2 Principles of fashion 1.3 Intangibles of fashion 1.4 Trends in fashion 1.5 Difference between fashion, style and trend.	08	14
UNIT-2	Fashion Theory 2.1 Veblen's theory of leisure class 2.2 Fashion terminologies- Avant-garde, Bespoke, Brand, Bridge fashion, Classic, Couture, Couturier, Diffusion line, Ensemble, Fad, Fashion follower, Fashion leader, Haute couture, High fashion, In Vogue, Knock off, Label, Mass manufactured, Prêt-e-porter, Silhouette 2.3 Fashion adoption theories 2.3.1 Trickle up 2.3.2 Trickle down 2.3.3 Trickle across theory 2.4 Fashion cycle / Bell curve. 2.4.1 Stages of fashion cycle 2.4.2 Changes in fashion cycle 2.4.3 Lengths and breaks in fashion cycle	06	10

UNIT-3	<p>Elements of Fashion</p> <p>3.1 Fabric: fabric quality, weave, texture, ornamentation etc.</p> <p>3.2 Color</p> <p>3.3 Fit</p> <p>3.4 Fall</p> <p>3.5 Shapes and Proportions</p>	06	10
UNIT-4	<p>Factors Affecting Fashion</p> <p>4.1 Factors affecting fashion</p> <p>4.1.1 Accelerating factors</p> <p>4.1.2 Retarding factors</p> <p>4.2 The factor of age and gender</p> <p>4.3 The factor of geography</p> <p>4.4 The factor of culture</p> <p>4.5 The factor of economy and class</p> <p>4.6 The factor of technology</p> <p>4.7 The factor of 'icon'</p> <p>4.8 The factor of popularity (fashion leaders and fashion followers)</p> <p>4.9 The factor of taste</p> <p>4.10 Time period</p>	06	10
UNIT-5	<p>Apparel Categorization</p> <p>5.1 Street wear</p> <p>5.2 Formal wear (business formals)</p> <p>5.3 Business casuals</p> <p>5.4 Ethnic wear</p> <p>5.5 Bridal wear (Western, Indian)</p> <p>5.6 Kids wear</p> <p>5.7 Denim wear</p> <p>5.8 Lounge wear</p> <p>5.9 Resort wear</p> <p>5.10 Beach wear</p> <p>5.11 Sports wear</p> <p>5.12 Active sports wear</p>	05	08
UNIT-6	<p>Fashion Research</p> <p>6.1 Design brief analysis</p> <p>6.2 Key words analysis and mind mapping</p> <p>6.3 Consumer research and boards (psychographic and demographic)</p> <p>6.4 Concept boards</p> <p>6.5 Brand research boards</p>	05	08
UNIT-7	<p>Fashion Icons, Fashion Designers & Fashion Brands</p> <p>7.1 Fashion icons, Prominent Indian and International fashion designers and their signature style. Various national and international fashion brands and analysis of the nature of products that they sell</p>	03	05

UNIT-8	Sources and Creator of Fashion 8.1 Creator of fashion inspiration 8.2 Promotion of fashion from designer to closet	03	05
	Total	42	70

List of Recommended Books:-

Sr. No.	Title	Author	Publisher
1	Fashion Design Essentials:100 Principles of Fashion Design	Jay Calderin	Rockport publication-2012 ISBN 13 - 9781592538270
2	Art in Everyday Life	Harriet Goldstein	Vettagoldstein Publisher
3	Mc'calls sewing in colour		Hamlyn Publication
4	How you look and dress	Byrta Carson	
5	Simple Accessories	Jeff Sone & Johnson Gros	--
6	Fashion From Concept to Consumer	Gini Stephens Frings	Pearson publications, 2009
7	The complete 20th Century Source Book	John Peacock	Thames and Hudson, London, 2000,
8	Fashion Accessories- Men	John Peacock	Thames and Hudson, London, 1996
9	Century of Bags	Claire Billcocks	Chartwell Books, New Jersey 1997
10	Shoes -Fashion and Fantasies	Malolow Blahnik- Co Collin Mac dolw	Thames and Hudson, 1989

COMPUTER GRAPHICS FOR GARMENT DESIGNING

Subject Code 2050404	Theory			No of Period in one session: 50			Credits
	No. of Periods Per Week			Full Marks			03
	L	T	P/S	ESE	:	100	
	03	—	—	TA	:	10	
				CT	:	20	

Rationale:

This course will give knowledge & practice of the advance software viz CorelDraw, and AutoCAD that is used for designing purpose and its real-life application in various fields of textile & garment designing. A course is designed to provide the students with a fundamental understanding of a range of computer graphics software applications. The main emphasis would be knowledge & practice of the advance software that is used for designing purpose and caters application of various fields of textile & Garment designing. Software application would provide Graphic based platform as per demands & standards of the fashion industry.

Course Outcomes (Cos): The students will be enable to

- Create flat garment drawings, motifs, weaves and human figures using AutoCAD and Corel Draw software effectively.
- Design 2D drawings using AutoCAD software.
- Develop proportionate human figure using AutoCAD software.
- Create flat garment design using various tools of Corel Draw software.
- Create motifs and skirts with special effects using various tools of Corel Draw software.

CONTENTS : THEORY

Name of the Topic		Hrs	Marks
Unit -1	AutoCAD Basics 1.1 Introduction to AutoCAD Meaning and its use. 1.2 Object selection method. 1.3 Setting and modifying entity property. 1.4 Launching AutoCAD. 1.5 Drawing Editor. 1.6 Pull-down menu. 1.7 Command line. 1.8 Property bar. 1.9 Zoom and pan the drawing in AutoCAD. 1.10 Creating a new drawing in AutoCAD. 1.11 Opening an existing drawing in AutoCAD. 1.12 Saving AutoCAD drawing in AutoCAD	10	
Unit -2	AutoCAD tools and commands 2.1 Drawing Entities: Line, Circle, Arc, Ellipse, Rectangular, Polygons, Poly line, SP line, Hatch, Fill, Point. 2.2 Modifying Entities: Offset, Copy, Paste, Erase, Trim, Break, Mirror, Array, Move, Rotate, Stretch, Lengthen, Trim, Extend, Break at point, Chamfer, Fillet. 2.3 Creating and managing Layers 2.4 Working with block	10	

	2.4.1 Make Block 2.4.2 Insert block 2.4.3 Edit block 2.5 Working with Text 2.5.1 Single line text 2.5.2 Multi line Text 2.5.3 formatting text style 2.5.4 Editing text 2.6 Applying components from AutoCAD Libraries (Design Centre) to drawing.		
Unit -3	Corel Draw Basics 3.1 Introduction to Corel Draw Meaning and its use. 3.2 Selecting objects. 3.3 Setting and modifying entity property. 3.4 Launching Corel Draw. 3.5 Drawing Editor. 3.6 Pull-down menus. 3.7 Property bar 3.8 Zoom and pan the drawing in Corel Draw. 3.9 Creating a new drawing in Corel Draw 3.10 Opening an existing drawing in Corel Draw 3.11 Saving Corel Draw drawing in Corel Draw	10	
Unit -4	Corel Draw tools and commands 4.1 Drawing and Shaping tools for flat drawing 4.1.1 Using the Freehand Tool 4.1.2 Drawing Lines and Poly lines 4.1.3 Drawing Freehand Polygons 4.1.4 Drawing Perfect Shapes 4.1.5 Reshaping Lines and Poly lines 4.1.6 Drawing Curves 4.1.7 Reshaping Curves 4.1.8 Drawing Rectangles 4.1.9 Drawing Ellipse and Circles 4.2 Editing tools 4.2.1 Selecting and Deselecting Objects 4.2.2 Moving Objects 4.2.3 Copying and Deleting Objects 4.3 Transforming Objects 4.3.1 Mirroring Objects 4.3.2 Rotating Objects 4.3.3 Skewing Objects 4.3.4 Sizing Objects 4.3.5 Scaling Objects 4.4 Outlining Objects 4.4.1 Setting Outline 4.4.2 Choosing Outline Thickness 4.4.3 Choosing Outline Colors 4.5 Filling Objects 4.5.1 Eyedropper Tools 4.5.2 Paint bucket Tools 4.5.3 Using Fill Tool	12	

4.5.4 Uniform Fill, Fountain Fill, Pattern Fill 4.5.5 Interactive Mesh fill 4.6 Arranging Objects 4.6.1 Power clip 4.6.2 Grouping and Ungrouping 4.6.3 Aligning 4.6.4 Arranging 4.6.5 Combining and Breaking 4.6.6 Welding 4.6.7 Intersection 4.6.8 Trim 4.7 The Text Tool 4.7.1 Creating Artistic Text 4.7.2 Editing Text 4.7.3 Formatting Text 4.7.4 Setting Text Options 4.7.5 Creating Paragraph Text		
	Total	42

List of Recommended Books

S. No.	Title of Books	Author	Publication
1	AutoCAD	Berghauser /schlieve	BPB Publication, new Delhi.
2	AutoCAD 2020 Beginning and Intermediate	Munir Hamad	Mercury Learning & Information (April 19, 2019) ISBN-13: 978-1683923916
3	AutoCAD 2020 For Beginners Paperback – May 15, 2019	CAD Folks	Independently published (May 15, 2019) ISBN-13: 978-1098820978
4	Corel Draw Training Guide Paperback – 1 January 2018	Satish Jain	BPB; First edition (1 January 2018) ISBN-13: 978-9387284005
5	CorelDRAW 12: The Official Guide (Corel Press) Paperback – Import, 16 February 2004	Steve Bain	McGraw-Hill Education (16 February 2004) ISBN-13: 978-0072031915
6	CorelDRAW 2021 & CorelDRAW Essentials 2021 - Training Book with many Exercises: Suitable for CorelDRAW Essentials 2021, CorelDRAW Home and Student 2021 and CorelDRAW 2021	Peter Schiessl	Lindemann Group (June 15, 2021) ASIN: B097CKBD4K

INDIAN TEXTILES & SURFACE EMBELLISHMENT

Subject Code 2050405	Theory			No of Period in one session : 42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

RATIONALE: This course will provide basic knowledge, origin, history, design elements and material and methods used for textile in northern, southern, eastern and western region of India. The knowledge and skills provided by this course would help in designing and making garments for different regions of India as per local needs/customs/traditions and would also help in creating new designs by fusion of features of traditional designs of different parts of India.

Course Outcomes (Cos): The students will able to

- i. Describe the different historical/ traditional textile and their origin.
- ii. Apply appropriate traditional textile crafts in given situations.

CONTENTS : THEORY

	Name of the Topic	Hrs	Marks
Unit-1	Textile of Northern Region. 2.1 Jammu and Kashmir : Various shawls (Jamawar, Pashmins, Amilkar, kanikar) , Namda, Gubba. 2.2 Himachal Pradesh : Kullu, Kinnaur shawls. 2.3. Uttar Pradesh : Brocade (kinkhab, Tanchoi, Abrawan, Gyasar).	05	07
Unit-2	Textile of Eastern Region 3.1 Assam : Muga,Pattu and Eri silk; Mekhla chaddar. 3.2 Manipur : Innaphi 3.3 Meghalaya: Woven textiles 3.4 Nagaland : Naga shawls 3.5 Orissa : Ikkat, Kora-pat sarees 3.6 Sikkim : Carpet weaving, Tangkha painting 3.7 Mizoram : Woven textiles 3.8 Tripura : Woven 3.9 Bihar : Woven 3.10 West Bengal : Jamdani sarees and its types (Daccai,tangil, dhaniakali, Shantipuri etc), Tussar silk, Baluchari sarees.	08	14
Unit-3	Textile of Southern Region 4.1 Andhra Pradesh: Kalamkari, Pitamber, Pochampalli, Telia rumal, Dharmaveram sarees, Venkatgiri sarees, Mangalgiri Sarees, Gadhwai Sarees. 4.2 Karnataka: Ilkal sarees. 4.3 Tamilnadu : Kanjiveram 4.4 Kerala : Kasu sari, Set-mundu.	06	12
Unit-4	Textile of Western Region 5.1 Rajasthan : Lehriya and mothra, Batik; Prints-Sanganer, Bagru Daabu ; Pichawai, Pabuji ki phad, Dhurries 5.2 Gujarat : Mata-ni-pachedi, Rogan, Bandhani, Ajarakh printing, Mashru, Patola, Brocades of Gujarat. 5.3 Madhya Pradesh: Chanderi sarees, Maheshwari sarees, Bagh prints. 5.4 Maharashtra : Paithani sarees, Mangalkari, Amru & himru.	08	14
Unit-5	Surface embellishment through Embroidery 6.1 Embellishment on fabric/ garment with machine embroidery / Computerized machine embroidery 6.2 Embellishment on fabric/ garment with hand embroidery and ari work, quilting etc	04	05
Unit-6	Surface embellishment through Printing Technology 7.1 Embellishment on fabric/ garment with block, stencil, screen, Fabric painting etc. 7.2 Industry visit to observe functioning of digital printing, roller and heat transfer printing, and industrial screen printing.	04	05

Unit-7	Surface development through fancy technique 8.1 Embellishment on fabric/ garment with Crochet- Single chain, slip stitch, single crochet, double crochet, treble, half single treble, double treble, triple treble etc. 8.2 Macramé- Half hitch, Half knot, Square knot, Lark head , Horizontal cording, Diagonal cording, Vertical cording, Overhead knot, Josephine knot. 8.3 Tatting- single shuttle and double shuttle. 8.4 Knitting- Purl, Knit, Garter, Rib, Cable and fancy stitch.	05	08
	Total	42	70

List of Recommended Books

Sr. No.	Title of Books	Author	Publication
1	Textile and embroidery of India	John Irvin	Marry Publications, Bombay.
2	Traditional Indian Costume and Textile	Dr. Parul Bhatnagar	Abhishek publication, Chandigarh
3	Hand woven fabrics of India	Jasleen Dhamija and Jyotindra Jain	Mapin publishing Pvt.Ltd. Ahmedabad
4	Patolas and resist dyed fabrics of India	Mapin publishers	
5	The Saree	Linda Lyton	Thames and Hudson
6	Indian Textiles	John Gillow & Nicholas Barnard	
7	Textile Traditions of North-east India	Shankar K Roy	

PATTERN MAKING AND DRAPING LAB

Subject Code 2050406	Practical			No of Period in one session : 60			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)	:	15	
	—	—	04	External (ESE)	:	35	

CONTENTS : PRACTICAL

	List of Experiment:-	Hrs	Marks
Unit-1	1.1 Prepare upper basic block as per measurement	02	
	1.2 Prepare basic block of sleeve as per measurement	02	
	1.3 Prepare lower basic block as per measurement	02	
Unit-2	2.1 Shift One, two & three dart by pivot method (3 samples).	02	
	2.2 Shift One, two & three dart by slash method. (3 samples).	02	
	2.3 Combine two darts and three darts by pivot method. (2 samples)	02	
	2.4 Combine two darts and three darts by slash method. (2 samples)	02	
	2.5 Divide one dart and two darts by pivot method. (2 samples)	02	
	2.6 Divide one dart and two darts by slash method. (2 samples)	02	
	2.7 Combine dart and convert into seams. (2 samples)	02	
	2.8 Combine dart and convert into gathers. (2 samples)	02	
	2.9 Combine dart and convert into yoke. (2 samples)	02	
Unit-3	3.1 Design sleeves for women garments (10 drawings)	02	
	3.1.1 Prepare set in sleeves through slash method (Total 5+1 fancy sleeves): Gathers at top (puff sleeve), Gathers at bottom (puff sleeve), Gathers at top & bottom (puff sleeve), Petal, Bell.	04	
	3.1.2 Prepare non-set in sleeves through adaptation from basic block of women garment (Total 6 sleeves): Kimono, Raglan pointed, Raglan with round base, Square, Magyar, Dolman.	04	
	3.2 Design flat and raised collars (10 drawings)	02	
	3.2.1 Prepare flat collars (Total 5 collars): Peter-pan, Sailors collar, Cape collar, Cape collar with scallops at bottom, Peter pan with lace at bottom.	06	
	3.2.2 Prepare raised collars. (Total 5 collars): Chinese collar (mandarin collar), Shirt Collar, Roll collar, Polo collar.	06	
3.3 Design cuffs (5 drawings)	02		
Unit-4	4.1 Design skirts (10 drawings)	02	
	4.2 Prepare skirts through slash method and drafting method.	06	
	4.2.1 Skirt with fullness at top (Gathered skirt)		
	4.2.2 Skirt with fullness at bottom (Flared skirt)		
	4.2.3 Skirt with fullness at top & bottom (Tiered skirt)		
	4.2.4 Skirt with yoke, & belt and facing		
	4.2.5 Half umbrella (Half Circular)		
	4.2.6 Full umbrella (Full Circular)		
4.2.7 Skirt with panels			
Unit-5	5.1 Study Size Charts (discuss and prepare size chart of different countries)	02	
Total		60	

CLOTHING CONSTRUCTION LAB - II

Subject Code 2050407	Practical			No of Period in one session : 60			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)	:	15	
	—	—	04	External (ESE)	:	35	

RATIONALE: This course will provide proficiency in upper and lower garments for children, males & females. The skills to be acquired by this course would help diploma pass outs in planning and supervising operations in industry efficiently and maintaining the quality of products. Students therefore should try to master these skills. This course will develop the requisite skills in the students for preparing fashioned garments at par with the industry.

Course Outcomes (Cos): Students will be able to

- i. Design, cut & stitch the upper garments for males & females.
- ii. Design, cut & stitch varieties of skirts.
- iii. Prepare lower garments for men and women as per requirement.
- iv. Draft, cut and stitch basic trouser for women & men.
- v. Draft, cut and stitch Indian bifurcated garment for women.

CONTENTS : PRACTICAL

UNIT	List of Experiment	Hrs	Marks
Unit-1	Prepare basic upper block for children.	02	
Unit-2	Design shirts for children (Three different designs)	02	
Unit-3	Draft, cut and stitch a children shirt (Age group: 8-10 years).	02	
	Design frocks. (Three different designs)	02	
Unit-4	Draft, cut and stitch frock. (Age group: 6-8 years)	02	
	Prepare basic upper block for men.	02	
Unit-5	Design formal shirts. (Three different designs)	02	
Unit-6	Draft, cut and stitch a formal shirt for men.	04	
	Design casual shirts. (Three different designs)	02	
	Draft, cut and stitch a casual shirt for men.	04	
	Prepare basic upper block for ladies.	02	
	Design ladies kurtas. (Three different designs using darts, pleats, tucks, laces, surface embellishment techniques etc.)	02	
	Draft, cut and stitch a ladies simple kurta.	04	
Unit-7	Draft, cut and stitch basic trouser for men.	04	
	Draft, cut and stitch basic trouser for women.	04	
	Design trouser variations (Five design)	02	
	Design skirt variations (Five design)	02	
	Draft, cut and stitch any one of the above variations.	04	
	Draft, cut and stitch Indian bifurcated garment for women (churidar or salwar)	04	
	Design Indian bifurcated garment variations (Five design)	04	
	Draft, cut and stitch any one of the above variations.	04	
Total		60	

COMPUTER GRAPHICS FOR GARMENT DESIGNING LAB

Subject Code 2050408	Practical			No of Period in one session: 60			Credits 02
	No. of Periods Per Week			Full Marks			
	—	—	04	Internal (PA)	:	15	
				External (ESE)	:	35	

	List of Experiment	Hrs	Marks
Unit-1	Draw Real figure (8 ½ head) of female using AutoCAD software.	04	
Unit-2	Draw Fashion figure (10 ½ head) of female using AutoCAD software.	12	
Unit-3	Draw Fashion figure (12 ½ head) of female using AutoCAD software.		
Unit-4	Draw Basic Weaves (Plain, Rib, Basket, Twill, Satin and Sateen) using AutoCAD software.	12	
Unit-5	Create Basic blocks (Front, Back and Sleeve) of female using AutoCAD software.	02	
Unit-6	Create different types of Motifs using Corel Draw software. (Any Four)	05	
Unit-7	Design Flat garment using Corel Draw software. <ul style="list-style-type: none"> • T-shirt and Capri • T- shirt and Short • Shirt and Trouser • Top and Skirt • Traditional garment for male • Traditional garment for female 	02	
Unit-8	Create different types of Skirt using Corel Draw software. (Any Five) <ul style="list-style-type: none"> • Box or Inverted box pleat skirt • Trumpet skirt • Tiered skirt • Double wrapper skirt • Handkerchief skirt • Knife pleat skirt • Half or Full Umbrella skirt 	11	

INDIAN TEXTILE & SURFACE EMBELLISHMENT (TW)

Subject Code 2050409	Practical			No of Period in one session : 45			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)	:	15	
	—	—	02	External (ESE)	:	35	

RATIONALE: This course will help students to learn about surface development of fabric for garment construction and development of garment through surface embellishment. It is useful for the students for embellishing the fabric in garment industry. Imbided knowledge will be useful for preparing fashioned garments.

Course Outcomes (COs): Students will be able to:

- i. Embellish fabric using suitable embroidery technique.
- ii. Apply different printing technique for embellishment of garments and fabric.
- iii. Select Crochet, macramé, Tatting and knitting technique for embellishment of accessories.

CONTENTS

	List of Term Work	Hrs	Marks
Unit-1	Designing of surface embellishment using embroidery on yoke	02	
	Designing of surface embellishment using embroidery on border	02	
	Designing of surface embellishment using embroidery on center panel	02	
	Designing of surface embellishment using embroidery on overall sari	02	
	Designing of surface embellishment using embroidery on sari palav	02	
	Designing of surface embellishment using embroidery on dress.	02	
	Prepare a fabric/ garment from embroidery technique by using any one design prepared above.	03	
Unit-2	Prepare design of surface embellishment using printing on <i>T-shirt</i> ,	02	
	Prepare design of surface embellishment using printing on <i>kurti</i> ,	02	
	Prepare design of surface embellishment using printing on <i>sari</i> ,	02	
	Prepare design of surface embellishment using printing on <i>cushion cover</i>	02	
	Prepare design of surface embellishment using printing on <i>bed sheets/bed spreads</i>	02	
	Prepare design of surface embellishment using printing on <i>table mats</i>	02	
	Prepare apparel/ household articles using printing technique prepared above.	02	
	Prepare various sample of block print on 12"x12" cloth by using wooden block.	02	
	Prepare various sample of batik on 12"x12" cloth by using wooden block.	02	
	Prepare various sample of tie and dye on 12"x12" cloth by using following basic techniques. (a) Circle (b) Fold (c) Knot (d) Pleat (e) Sew (f) Marbling (g) Ruching (h) Traditional bandhani.	03	
Unit-3	Prepare basic samples of knitting/macramé/tatting	03	
	Prepare jewellery as accessory using techniques such as crochet /knitting /macramé /tatting (Foot wear, hand bags, head wear, etc.)	02	
	Prepare Foot wear as accessory using techniques such as crochet /knitting /macramé /tatting	02	
	Prepare hand bags as accessory using techniques such as crochet /knitting /macramé /tatting	02	
	Prepare head wear as accessory using techniques such as crochet /knitting /macramé /tatting	02	
Total		45	

COURSE UNDER MOOCS / SWAYAM / OTHERS (T.W)

Subject Code 2050410	Practical			No of Period in one session :			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)			
	—	—	04	External (ESE)			
				:	50		
				:	15		
				:	35		