

Government of Karnataka
Department of Technical Education

Diploma in Apparel Design and Fabrication Technology

C-25 Scheme of Studies

(Effect from the AY 2025-26)

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Curriculum Structure

I Semester Scheme of Studies

Sl. No.	Teaching Department	Course Code	Course Name	Hours per week			Total Contact Hours/week	Credits	CIE Marks		Theory SEE Marks		Practice SEE Marks		Total Marks
				L	T	P			Max	Min	Max	Min	Max	Min	
Integrated Courses															
1	FT	25FT11I	Elements of Sewing Techniques	4	0	4	8	6	50	20	50	20	-	-	100
2	FT	25FT12I	Fashion Fundamentals	4	0	4	8	6	50	20	50	20	-	-	100
3	FT	25FT13I	Pattern Illustration-I	3	0	4	7	5	50	20	-	-	50	20	100
4	ENG	25EG01I	Essential English Communication	4	0	4	8	6	50	20	-	-	50	20	100
Audit Course															
5	FT	20FT14T	Environmental Sustainability	2	0	0	2	2	50	20	-	-	-	-	50
6	Personality Development		NCC/NSS/YOGA/SPORTS...	Students are expected to engage in any one of these activities from 1st semester to 6th semester(No Credits)											
Total				**17**	**0**	**16**	**33**	**25**	**250**	**-**	**100**	**-**	**100**	**-**	**450**



Government of Karnataka
DEPARTMENT OFTECHNICAL EDUCATION

Curriculum Structure

II Semester Scheme of Studies

Sl. No.	Teaching Department	Course Code	Course Name	Hours per week			Total Contact Hours/week	Credits	CIE Marks		Theory SEE Marks		Practice SEE Marks		Total Marks
				L	T	P			Max	Min	Max	Min	Max	Min	
Integrated Courses															
1	FT	25FT21I	Needle Art and Embellishment-I	4	0	4	8	6	50	20	50	20	-	-	100
2	FT	25FT22I	Fiber Science	4	0	4	8	6	50	20	50	20	-	-	100
3	FT	25FT23I	Pattern Illustration-II	3	0	4	7	5	50	20	-	-	50	20	100
4	FT	25FT24I	Fashion Sketching	3	0	4	7	5	50	20	-	-	50	20	100
Audit Course															
5	FT	20FT25T	Indian Constitution	2	0	0	2	2	50	20	-	-	-	-	50
6	Personality Development		NCC/NSS/YOGA/SPORTS...	Students are expected to engage in any one of these activities from 1st semester to 6th semester (No Credits)											
Total				**18**	**0**	**16**	**34**	**24**	**250**	**-**	**100**	**-**	**100**	**-**	**450**

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Curriculum Structure

III Semester Scheme of Studies

Sl. No.	Teaching Department	Course Code	Course Name	Hours per week			Total Contact Hours/week	Credits	CIE Marks		Theory SEE Marks		Practice SEE Marks		Total Marks
				L	T	P			Max	Min	Max	Min	Max	Min	
Integrated Courses															
1	FT	25FT31I	Apparel Industry & Machineries	4	0	4	8	6	50	20	50	20	-	-	100
2	FT	25FT32I	Fabric Structural Design	4	0	4	8	6	50	20	50	20	-	-	100
3	FT	25FT33I	Pattern Illustration -III	3	0	4	7	5	50	20	-	-	50	20	100
4	FT	25FT34I	Needle Art & Embellishment-II	3	0	4	7	5	50	20	-	-	50	20	100
Audit Course															
5	KAN	25KA31T	Kannada –I ಸಾಹಿತ್ಯ ಸಿಂಚನ-I/ಬಳಕೆ ಕನ್ನಡ-I	2	0	0	2	2	50	20	-	-	-	-	50
Total				**18**	**0**	**16**	**34**	**24**	**250**	**-**	**100**	**-**	**100**	**-**	**450**

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Curriculum Structure

IV Semester Scheme of Studies

Sl. No.	Teaching Department	Course Code	Course Name	Hours per week			Total Contact Hours/week	Credits	CIE Marks		Theory SEE Marks		Practice SEE Marks		Total Marks
				L	T	P			Max	Min	Max	Min	Max	Min	
Integrated Courses															
1	FT	25FT41I	Pattern Illustration -IV	4	0	4	8	6	50	20	50	20	-	-	100
2	FT	25FT42I	Traditional & Technical Textiles	4	0	4	8	6	50	20	50	20	-	-	100
3	FT	25FT43I	Dyeing & Printing	3	0	4	7	5	50	20	-	-	50	20	100
4	FT	25FT44I	Computer Aided Designing	3	0	4	7	5	50	20	-	-	50	20	100
Audit Course															
5	KAN	25KA41T	Kannada –II ಸಾಹಿತ್ಯ ಸಿಂಚನ-II/ಬಳಕೆ ಕನ್ನಡ-II	2	0	0	2	2	50	20	-	-	-	-	50
Total				**18**	**0**	**16**	**34**	**24**	**250**	**-**	**100**	**-**	**100**	**-**	**450**

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	APPAREL DESIGN AND FABRICATION TECHNOLOGY	**Semester**	**I**
Course Name	ELEMENTS OF SEWING TECHNIQUES	**Type of Course**	Integrated
Course Code	**25FT11I**	**Contact Hours**	8Hrs/week 104 Hrs/Sem
Teaching Scheme	L: T:P 4:0:4	**Credits**	6
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

1. **Rationale:** Understanding the fundamentals of sewing techniques is essential to develop proficiency in sewing. These techniques serve as the foundation for learning art of sewing by creating durable, professional and quality garments and projects.

2. **Course Outcomes:** At the end of the Course, the student will be able to:

CO-01	Develop proficiency with sewing machine and its working method.
CO-02	Understand sewing techniques used to achieve quality apparels.
CO-03	Develop skills in creating different fabric textures.
CO-04	Identify and apply various trimmings for apparels.

3. Course Content

WEEK	CO	PO	Theory	Practice
1	1	1,7	**Sewing Machine** Introduction to Sewing Machine History of sewing machine Types of sewing machine: hand operated, Treadle operated and power operated sewing machine	Practicing pedal exercises and machine control Practicing paper exercises: straight line, parallel line, zigzag line, curve line, concentric circle, triangle, square
2	1	1,7	List of sewing machines used in apparel industries Parts of sewing machine and its functions	Identifying parts of sewing machine Cleaning and oiling the machine Practicing needle fixing,

			Care and maintenance of sewing machine	threading the sewing machine, Bobbin winding, drawing bobbin thread, tension adjustment
3	1	2,7	**Defects causes and remedies** • Needle breaking • Loop stitches • Skip stitches • Puckered seams • Variation in stitch length • Upper thread breaking • Lower thread breaking • Machine working heavily	Practicing fabric exercises straight line, parallel line, zigzag line, curve line, concentric circle, triangle, square
4	2	1,3,7	**Seams and its applications:** Types of seams Plain seam, French seam, lapped seam, flat and fell seam, bound seam, edge neatening seam **Stitches and its applications:** Classification of stitches: Temporary, permanent and decorative stitches	Preparing samples of the following seams: Plain seam, French seam, lapped seam, flat and fell seam, bound seam, edge neatening seam
5	2	1,3,7	**Stitches and its applications:** Temporary: Basting and Tailor's tack Permanent: Hemming, button hole, over casting, back stitch, Prick stitch Decorative : Blanket stitch, cross stitch, chain stitch and Herring bone stitch, Feather stitch	Preparing samples of the following stitches: Temporary: Basting and Tailor's tack Permanent: Hemming, button hole, over casting, back stitch, Prick stitch
6	3	1,3,7	**Fabric texturing methods:** Smocking and honeycomb and its uses in garment designing Method of Smocking and stitches used in Smocking. Method of honey comb and pattern creation in honey comb	Prepare swatches smocking pattern with any five stitches Prepare swatches of any three patterns of honey comb
7	2	1,3,7	**Darts and tucks and its applications:** Classification of darts: Arrow head dart and diamond dart Tucks : pin tucks, space tuck, carded tuck, blind tuck, released tucks, cross Tuck, Shell tuck	Preparing samples of the following: Arrow head dart and diamond dart pin tucks, space tuck, carded tuck, blind tuck, released tucks, cross Tuck, Shell tuck

8	2	1,3,7	**Pleats and its applications:** Side pleats, knife pleats, box pleats, inverted pleats, Accordion pleats	Preparing samples of the following pleats: Side pleats, knife pleats, boxpleats, inverted pleats, Accordion pleats
9	3	1,3,7	**Gathering and shirring its applications:** Gathering: Handmade gathering, machine made gathering and gathering foot method and its application Shirring: Handmade shirring, machine made shirring with elastic and its application	Preparing samples of the following Gathering and shirring: Handmade gathering, machine made gathering Handmade shirring, machine made shirring with elastic
10	3	1,3,7	**Frills and ruffles its applications:** Types of frills: Single edge frills, double edge frill Circular ruffles (flounces): Importance of circular ruffles, suitable fabrics, Cutting method and its application	Preparing samples of the following Frills and ruffles: Single edge frills, double edge frill and Circular ruffles
11	4	1,3,7	**Trimmings and fasteners its application:** Classification of trimmings: functional and decorative trimmings Types of fasteners used in garment construction	Collection of different types of trimmings and fasteners Practicing attachments of fasteners: Button, button hole, hook and eye
12	4	1,3,7	**Fabric study: properties and uses** Poplin, chintz, Nylon, polyester, Satin Organdie, Mull, Raw silk, Jeans, khaki Fabric designs: Plain, Checks, plaids, Stripes, polka dots, one way design, two-way design, all over design	Identify and collect the swatches of the various types of fabrics Collect the samples of Plain, Checks, Stripes, polka dots, one way design, two-way design, all over design fabrics
13	4	1,3,7	**Width of Material and its application**: Single Width, Medium Width, Double Width fabrics Establish a relation between Fabric weight, thread type and needle type	Sketch Fabric designs: Plain, Checks, Stripes, polka dots, one way design, two way design, all over design

4. References:

Editors of Reader's Digest,
"Reader's Digest: New Complete Guide to Sewing", Reader's Digest, 2010 Ruth Sleigh Johnson & Martin Palmer,
"Practical Sewing Techniques", A & C Black Visual Arts, London, 2011 Wendy Gardiner
"Sewing Basics", Hauppauge, Barron's, New York, 2003.

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 Marks**

6. SEE - Theory Assessment Methodologies

Sl. No	SEE – Theory Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Theory	90	50	20

7. CIE Theory Test model question paper

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**			**Semester -I**	
Course Name	**ELEMENTS OF SEWING TECHNIQUES**			**Test**	**I/III**
Course Code		**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a)List out the machines used in apparel industry b)Explain the types of sewing machines c)Illustrate any two parts of sewing machine d)Define seams and explain any three seams with neat sketch	R U A A	1 1 2 3	5 5 5 10
2	a)List out temporary and permanent stitches b)Describe the types of frill and its uses c)Draw a neat sketch of frock with circular ruffles d)Define smocking and explain the stitches used in smocking with neat sketch	R A A R	1 1 2 3	5 5 5 10
	Section - 25			
3	a)Enlist the various types of tucks b)Explain the method of gathering c)Illustrate any two decorative trimmings d)Describe the properties of any four types of fabrics	R A A U	3 3 4 4	5 5 5 10
4	a)Enlist any five decorative and functional trimmings b) Explain the method of shirring c) Illustrate any two decorative trimmings d) Describe with of fabrics and relation between fabric weight and needle with threads	R A A U	3 3 4 4	5 5 5 10
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.				

Signature of the Course Coordinator **Signature of the HOD** **Signature of the IQAC Chairman**

8. CIE Practice Test model question paper

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**			**Semester**	**I**
Course Name	**ELEMENTS OF SEWING TECHNIQUES**			**Test**	**II/IV**
Course Code	**25FT11I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
				CO	**Marks**

Questions		
1. Cut and stitch any four tucks pattern 2. Cut and stitch box pleats and knife pleats **3.** Create a swatch of honey comb stitches		**20** **15** **15**
Scheme of assessment **Q1. 20** **Q2. 15** **Q3. 15**		
	Total Marks	**50**

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose **any two** activities that are relevant to the topic

Sl.No.	**Suggestive Activities for Tutorials**
01	Collect pictures and make a report on different types of sewing machine uses in industry
02	Create a swatch of Blanket stitch, cross stitch, chain stitch and Herring bone stitch, Feather stitch
03	Create an article using smocking or honey comb methods
04	Collect the pictures of various types of darts, tucks and pleats in ladies clothing
05	Create any five types of decorative trimming by hand
06	Collect the swatches of different types of needle and threads used in sewing make a report

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. SEE–Model Theory Question Paper

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**	**Semester**	
Course Name	**ELEMENTS OF SEWING TECHNIQUES**	**Marks**	**50**
Course Code	**25FT11I**	**Duration**	**90 Min**

Note: Answer any one full question from each section. Each full question carries equal marks.

Q No	**Questions**	**Cognitive Levels**	**Course Outcomes**	**Marks**
	Section -1			
1	a) Elaborate the history of sewing machine b)Explain care and maintenance of sewing machine	U A	1	5 5
2	a) Find out the remedies for needle breaking and seam puckering b) describe any two parts of sewing machine with neat sketch	U A	1	5 5
	Section -2			
3	a)List out the types of seam and explain any one b)Describe the method of smocking	R U	2	5 5
4	a) List out the types of stitches and explain any one b)Describe the method of honeycomb creation	R U	2	5 5
	Section -3			
5	a) List out various types of darts and explain any one b) Differentiate between side pleats and box pleats	R U	3	5 5
6	a) List out various types of tucks and explain any one. b)Differentiate between gathering and shirring.	R U	3	5 5
	Section -4			
7	a) Draw any two permanent stitches with neat sketch. b) Elaborate the method of circular ruffles.	A U	3	5 5
8	a) Draw any two decorative stitches with neat sketch b)Explain the width of fabrics.	A U	3	5 5
	Section -5			
9	a) List out various types of functional trimmings and explain any one. b)Analyze the properties of denim and poplin	R AN	4	5 5

10	a) List out various types of decorative trimmings and explain any one. b) Analyze the properties of polyester and satin.	R AN	4	5 5

12. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	Sewing machines	Domestic model/high speed	30
02	Sewing tool kit	Usha tool kit	30
03	Cutting tables	Wooden cutting tables	30

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**ADFT**	**Semester**	**1**
Course Name	**FASHION FUNDAMENTALS**	**Type of Course**	Integrated
Course Code	**25FT12I**	**Contact Hours**	8Hrs/week 104 Hrs/Sem
Teaching Scheme	L: T:P 4:0:4	**Credits**	6
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

1. Rationale:

The course on fashion fundamentals helps in understanding the basic concepts of fashion. This course helps in developing skills to create illustrations of apparel and accessories for advertisements, catalogues, websites and other media. This will help in developing requisite skills to render fashion designs on paper to match the client's desired aesthetic.

2. Course Outcomes: At the end of the Course, the student will be able to:

CO-01	Developing illustration techniques to represent the creative ideas of fashion.
CO-02	Understand and analyze figure type, color concepts, elements and principles of design.
CO-03	Analyze different fashion clothing, fashion accessories, Designers, fashion centers, sources of inspiration in fashion forum.
CO-04	Utilization of different fabrics and materials by increasing the scope of fashion art.

3. Course Content

WEEK	CO	PO	Theory	Practice
1	**1**	**1,3, 5**	**Introduction to fashion** Fashion terminologies: Fashion, Style, classic, FAD, Mass fashion, Street fashion, Haute couture, Fashion innovators, Fashion leaders, Fashion followers	Collection of information on fashion centers of the world Practicing basic patterns lines, dots, Checks, and curves.

2	**1**	**1,3,4**	**Fashion Designers** Indian and International fashion designers, achievements of any two Indian and International designers Fashion cycles FAD Cycle, classic cycle	Collection of latest designs of famous Indian and international fashion designers out fits Practicing Pencil Shading on basic geometric patterns using 2B, 4B and6B pencils Illustrating pattern details pleats, ruffles, shirring, smocking effect
3	**2**	**1,3,7**	**Tools and equipment** Tools and equipment required for fashion illustration, Different types of papers, pencils, color mediums, brushes, eraser, pens and markers, scales. Different types of mediums –water, poster, acrylic, staedtler and pens	Illustration of any two types of neck lines, collars, sleeves and skirts with pencil shading
4	**2**	**1,3,4**	**Human anatomy:** Eight head theory: meaning and divisions of figure, Importance and uses of eight head figures **Human figures:** Classification of human figures proportionate figures, abnormal figures	**Human stick figure** Division of eight head, ten head, and twelve head male and female stick figures Sketching– Front, back and sideview eight head, ten head, and twelve head male and female stick figures
5	**2**	**1,3,4**	**Figure types**: Tall and thin, short and stout, Erect figure and stooping figure Corpulent figure and semi corpulent figure,	Human figures: Sketching– Front, back and side view eight head, ten head, and twelve head male and female Flesh figures
6	**1,2**	**1,3,5,7**	**Introduction to Colours:** Properties of colors. Color theory: Primary colors, Secondary colors, Tertiary colors Color wheel	**Colour theory**: Primary colors, Secondary colors, Tertiary colors and Color wheel
7	**1,2**	**1,3,5,7**	**Different color schemes:** Monochromatic color scheme, Analogous color scheme, Complimentary color scheme	Application of color harmony in garment design – Monochromatic color Harmony Analogous color harmony, Complimentary color Harmony
8	**3**	**1,3,5,7**	**Introduction to Elements of design:**	Show application of Elements

			Line, shape, value, color, texture, form, space **Introduction to Principles of design**: Balance –Formal and informal, Rhythm, Gradation, Repetition, Emphasis, Proportion, Harmony	and Principles in designing on one male and female costumes
9	**2,3**	**1,3,5,7**	**Introduction to Fashion Accessories** Classification of fashion accessories and its applications: Hand bags, Jewellry	Illustration of fashion accessories each two designs Hand bags, Jewelry
10	**2,3**	**1,3,5,7**	Classification of fashion accessories and its applications: Head gears Footwear	Illustration of fashion accessories each two designs Head gears, footwear
11	**2,3**	**1,3,7**	**Types of silhouettes** Natural body and Wedges, Rectangular, Triangular, Hourglass	Application of silhouettes in designing- Natural body, Wedge, Rectangular, Triangular, Hourglass
12	**3,4**	**1,3,7**	**Introduction to fabric painting** Knowledge of Tools and Equipment used in Fabric painting – Brushes-flat, round, pallet, bowl, pencil, tracing paper, Carbon paper, frames-round, square	Practicing basic strokes and shadings- comma stroke, Chisel stroke, Flat, comma, leaf stroke, S stroke, Tear drop
13	**3,4**	**1,3,7**	**Fabric Selection for painting** Selection of suitable fabrics for painting Pre-treatments of fabric for painting Post painting treatment for fabric	Painting out lines -thin lines and thick lines outlines, filling Colors Wet shade, Dry Shade

4. References:

1.Fashion and color by Mary Garthe Rockport Publishers
2. Color Harmony 2 by Bride M.Whelan Rockport Publishers
3. Fashion Source Book by Kathryn Mckelvey Blackwell Science
4. Encyclopedia of fashion details by Patrick John Ireland Batsford

7. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 Marks**

8. SEE - Theory Assessment Methodologies

Sl. No	SEE – Theory Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Theory	90	50	20

6. CIE Theory Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester -1**	
Course Name	**FASHION FUNDAMENTALS**			**Test**	**I/III**
Course Code	**25FT12I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Explain any two tools used for fashion illustration	R/U	1	5
	b) Classify the tools and equipment's required for	A		5

	illustration c) Explain the basic factors affecting fashion.	A		5
	d) Analyze the importance and uses of eight heads theory	A		10
2	a) Define eight heads theory with neat sketch	R/U	1	5
	b) Identify the different color schemes and explain any one	A		5
	c)Illustrate color wheel and list its importance	A		5
	d) Analyze any four fashion terminologies	A		10
Section - 2				
3	a) Define the Primary, secondary, and tertiary colors	R/U	2	5
	b)Illustrate color wheel and list its importance	A		5
	c) Distinguish between Monochromatic and analogous color scheme	A		5
	d) Illustrate the garment using any one element of design and color it neatly	A		10
4	a)Define the elements and principles of design	R/U	2	5
	b)Explain the importance of color harmony	A		5
	c) Describe the tools and equipment required for fabric painting.	A		5
	d) Identify any two sources of inspiration and their application in designing.	A		10
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.				

Signature of the Course Coordinator **Signature of the HOD** **Signature of the IQAC Chairman**

10. CIE Practice Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester**	**1**
Course Name	**FASHION FUNDAMENTALS**			**Test**	**II/IV**
CourseCode	**25FT12I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					

Questions	**CO**	**Marks**
1. Illustrate the front and back view croque figure using 10 ½ heads/flesh figures/stick figures/postures/different types of wear	**1**	**15**
2. Trace the given design and color the design using fabric painting techniques	**2**	**20**
3. Design any two Hand bags/head gears/hairstyles/jewelries and color them	**3,4**	**15**

Scheme of assessment	
a) Illustration of figures	**15**
b) Fabric painting	**20**
c) Designing of Accessories	**15**
Total Marks	**50**

Signature of the Course Coordinator **Signature of the HOD**

11. Suggestive Activities for Tutorials:

The List is an Example and not inclusive ofall possible activities of the course. Student and Faculty are encouraged to choose **any two** activities that are relevant to the topic.

Sl.No.	**Suggestive Activities for Tutorials**
01	Prepare a report on Fashion and its importance.
02	Prepare a pair of cushion cover with fabric painting.
03	Prepare a letter holder using various fabric painting techniques.
04	Create a wall hanger using elements and principles of design concept.
05	Prepare a pair of earrings using material of your choice.
06	Sketch any two accessories used for party wear.

12. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	AverageMarks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities.

13. SEE–Model Theory Question Paper

Program	ADFT	Semester	1
Course Name	FASHION FUNDAMENTALS	Marks	50
Course Code	25FT12I	Duration	90 Min

Note: Answer any one full question from each section. Each full question carries equal marks.

Q No	Questions	Cognitive Levels	Course Outcomes	Marks
	Section -1			
1	a) Explain any two tools used for fashion illustration. b) Classify the tools and equipment's required for illustration.	R/U	1	5
		A/A		5
2	a) Define eight heads theory with neat sketch. b) Identify the different color schemes and explain any one.	R/U	1	5
		A/A		5
	Section -2			
3	a) Explain the properties of colors. b) Distinguish between Monochromatic and analogous color scheme.	R/U	2	5
		A/A		5
4	a) Define the elements and principles of design b)Distinguish between Complimentary and triad color scheme	R/U	2	5
		A/A		5
	Section -3			
5	a) Explain any five fashion terminologies b)Analyze the different types of silhouettes with neat sketch	R/U	3,4	5
		A/A		5
6	a) Illustrate the casual wear using 8 heads Croque figure and color it neatly b)Distinguish between Wedge silhouette and rectangular silhouette	R/U	3	5
		A/A		5

Section -4				
7	a)Classify the fashion accessories and explain any two b)illustrate sportswear using 10 head croque figure and color it neatly	R/U A/A	2,4	5 5
8	a)Explain fashion cycle with neat sketch b)Illustrate the female party wear using 10 head croque figure	R/U A/A	2	5 5
Section -5				
9	a)Explain the terms Fashion innovators and Fashion journalism b) Illustrate the male formal wear using 10 head croque figure	R/U A/A	3	5 5
10	a)Describe the importance of fashion inspiration b)Identify the features of any two fabrics used for sports wear	R/U A/A	3,4	5 5

14. Equipment/softwarelistwithSpecificationforabatchof30students

Sl.No.	Particulars	Specification	Quantity
01	Drawing sheets	Cartridge sheets	30
02	Different color medias	Acrylic/Fevicryl	30
03	Fabrics	Cotton/Silk	30

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design & Fabrication Technology**	**Semester**	**I**
Course Name	Pattern Illustration -I	**Type of Course**	Integrated
Course Code	**25FT13I**	**Contact Hours**	7Hrs/week 91 Hrs/Sem
Teaching Scheme	L: T:P 3: 0:4	**Credits**	5
CIE Marks	**50**	**SEE Marks**	**50 (Practice)**

5. Rationale: Pattern making is the first step in designing a successful garment. A pattern's primary purpose is to connect design and production by creating paper templates for all garment components to be cut and sewn together to complete a specific garment or style. A pattern is used as a template to cut out fabric that matches the required specifications to sew a garment. It factors in the type of fabric, the intended fit on the wearer, and any trims that will be used.

6. Course Outcomes : At the end of the Course, the student will be able to:

CO-01	Able to identify various tools used in Garment construction.
CO-02	Understand and apply various measurements required for Garment construction.
CO-03	Understand different garment components and its applications in Garment construction.
CO-04	Compile various components to finish a garment.

7. Course Content

WEEK	**CO**	**PO**	**Theory**	**Practice**
1	**1**	**1**	**INTRODUCTION TO PATTERN MAKING** Introduction to pattern making, Importance and uses. **TOOLS AND EQUIPMENTS** Measuring and Drafting Tools- Measuring Tape, Drafting Tables, L-square, French curve, and Marking Chalk with neat sketch. Cutting tools - Cutting Table, Scissors, Pinking Shears, Stiletto, Tracing Wheel, Bodkin with neat sketch	Sketching of tools and equipment - Measuring & drafting tools. Sketching of cutting & sewing tools.

			Sewing Tools: Hand needles- Machine needles, Sewing Threads, Thimble, and Pincushion with neat sketch.	
2	**1**	**1**	Finishing tools: Trimmers and seam rippers with neat sketch Pressing tools: Ironing table, Iron Box with neat sketch. Pressing tools: Sleeve board, Needle board with neat sketch.	Sketching of finishing tools Sketching of pressing tools
3	**2**	**1**	**MEASUREMENTS** Principles and importance of measurements Classification of Measurements and method of taking measurements. Direct and indirect measurements.	Sketches of taking various measurements. Practice of sewing - different shapes- straight line, horizontal line, vertical lines, curve shapes square on white paper.
4	**3**	**1,7**	**INTRODUCTION TO NECKLINES** Introduction and classification of Necklines. Construction and Drafting any five basic necklines. Style feature of the above necklines.	Prepare the Paper Pattern of the given Necklines Cut, Stitch & Finishing of basic necklines.
5	**3**	**1,7**	Construction and drafting of any five decorative necklines. Finishing of the above necklines. Style feature of the above necklines.	Prepare the Paper Pattern of the given Necklines. Cut, Stitch & Finishing of decorative necklines
6	**4**	**1**	Introduction to **Bodysuits or Onesies** with **or without sleeves** for babies. Sketch and design the style feature of garment. Measurements required and method of measuring the same. Components, Suitable Fabric and Trimmings Garment Drafting & Construction.	Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Sewing and assembling the garment
7	**4**	**1**	**INTRODUCTION TO SLEEVES** Introduction to Basic sleeves. Drafting of plain and puff sleeves. Variations of puff sleeves – ½ sleeves, ¾th sleeves and full sleeves.	Sewing and assembling the garment Prepare paper patterns of Basic sleeves and its variations.
8	**3**	**1,7**	Variations of puff sleeves – ½ sleeves, ¾th sleeves and Full sleeves.	Preparing samples of Plain sleeves and puff sleeves. Preparing samples of Plain sleeves and puff sleeves.

9	**4**	**3,7**	Introduction to **Tunic with Frill for Girl Baby** Sketch and design the style feature of the garment. Measurements required and method of measuring the same. Components, Suitable Fabric and Trimmings Garment Drafting & Construction.	Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Sewing and assembling the garment
10	**3**	**3,7**	**INTRODUCTION TO COLLARS** Introduction to collars. Classification of collars. Drafting and construction of basic collars – Peter Pan collar, open collar and stand collar.	Prepare paper patterns of Basic collars. Preparing samples of Peter pan collar, Open collar and stand collar.
11	**3**	**3,7**	**INTRODUCTION TO PLACKETS** Introduction to Plackets. Importance of Plackets. Continuous placket and shirt placket	Prepare paper patterns of any two plackets. Preparing samples of plackets.
12	**4**	**3,7**	Introduction to **Jhabla Frock** for Girl Baby. Sketch and design the style feature of the garment. Measurements required and method of measuring the same. Components, Suitable Fabric and Trimmings. Garment Drafting & Construction.	Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Sewing and assembling the garment
13	**3**	**3,7**	**INTRODUCTION TO POCKETS** Introduction to pockets and its importance. Drafting of Patch pocket – any two Sketching and colouring of various patch pocket design.	Prepare paper patterns of any two Pockets. Preparing samples of patch pockets with flap and without flap.

4. References:

1. Art of Sewing – Anna Jacob Thomas
2. Metric Pattern Cutting for children wear II Edition, Blackwell Science. -Winifred Aldrich
3. Complete Guide for sewing – Readers Digest.
4. More Dress Pattern Designing Fourth Edition, Blackwell Science. – Natalie Bray.
5. Dress Pattern Designing. - Natalie Bray

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 Marks**

6. SEE – Practice Assessment Methodologies

Sl. No	SEE – Practice Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Practice	180	50	20

Note: Retain SEE – Theory Table if there is theory End examination or SEE – Practice Table if there is practice End examination

7. CIE Theory Test model question paper

Program	**Apparel Design & Fabrication Technology**			**Semester - I**	
Course Name	**Pattern Illustration-I**			**Test**	**I/III**
Course Code	**25FT13I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					
Q.No	**Questions**		**Cognitive Level**	**Course Outcome**	**Marks**
Section - 1					

1	a) List the tools required for drafting and measuring. b) Classify any two cutting tools with neat sketch. c) Explain the uses of needle board. d) Compare hand needles and machine needles.	R U U A	1	5 5 5 10
2	a) Name any five cutting tools. b) Illustrate and explain tracing wheel and stiletto. c) Summarize the uses of seam ripper. d) Distinguish between sleeve board and needle board.	R U U A	1	5 5 5 10
Section - 2				
3	a) List any five measurements. b) Classify various measurements. c) Outline the importance of measurements. d) Analyze direct and indirect measurements.	R U U A	2	5 5 5 10
4	a) List the principles of measurements. b) Illustrate the method of taking chest measurement. c) Explain vertical or Length wise measurements d) Distinguish between Plain and puff sleeves with a neat sketch.	R U U A	2	5 5 5 10
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.				

Signature of the Course Coordinator **Signature of the HOD** **Signature of the IQAC Chairman**

8. CIE Practice Test model question paper

Program	**Apparel Design & Fabrication Technology**			**Semester**	**I**
Course Name	**Pattern Illustration-I**			**Test**	**II/IV**
Course Code	**25FT13I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1. Prepare paper pattern for Tunic with frills for the given measurements 2. Draft, Cut and Stitch the above garment. 3. Finish and press the given garment.				4	50
Scheme of assessment **a**) Preparation of paper pattern.					05 10

b) Cutting all components. c) Fabrication of the garment. d) Finishing and pressing	30 05
Total Marks	**50**

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic. **(Any Two)**

Sl.No.	**Suggestive Activities for Tutorials**
01	Preparing different types of decorative necklines.
02	Prepare any designer frock of student's choice.
03	Prepare a basic frock with collar.
04	Prepare samples of various sleeves.
05	Prepare any type of tunic frock using trimmings.
06	Prepare three samples of different design pockets.

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. **SEE- Model Practice Question Paper**

Program	**Apparel Design & Fabrication Technology**		**Semester**	**I**
Course Name	**Pattern Illustration-I**	**Course Code- 25FT**	**Duration**	**180 min**
Questions			**CO**	**Marks**
1. Prepare paper pattern for Bodysuits/Tunic with frill/Jhabla frock for the given measurements 2. Draft, Cut and Stitch the above garment. 3. Finish and press the given garment.			**4**	**50**
Scheme of assessment **a**) Preparation of paper pattern. b) Cutting all components. c) Fabrication of the garment. d) Finishing and pressing				 05 10 30 05
			Total Marks	**50**

1) Signature of the Examiner **2) Signature of the Examiner**

12. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	High Speed power Operated Sewing Machine	Single needle, Needle bar stroke: 41.2, machine speed 4000-5000 RPM, thread trimmer, Less noise and environmental friendly.	30
02	High Speed over Lock Sewing Machine	Single needle, 3 thread, speed 6500 SPM, automatic lubrication, stitch length 2-4mm	04
03	Automatic Zig-Zag Machine	Fully automatic lubrication, sewing speed 5000 spm, stitch width5.0mm	05
04	Dress form (Male and Female)	Adjustable heights and easy pinning with different sizes.	04
05	Cutting Table	Size-1200mm,1500mm,1800mm ideal height should be slightly above elbow height when seated.	10

06	Plastic / Metal L Square	24 inches x 12 inches arm curve	30
07	Plastic French curve with Shaper	Plastic or fiber material Height 2mm and width 4cms	30
08	Industrial Steem iron	Voltage-220v, power 1200w frequency 50-60Hz	02
09	Wooden Stools with Cushion	Height 30inch,width 14inch, depth 14inch	30
10	Mannequins (Male, female and kid- Boy & Girl)	6 feet, Fiber material with SS base plate	04

SECOND SEMESTER

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design and Fabrication Technology**	**Semester**	**2**
Course Name	**Needle Art and Craft-I**	**Type of Course**	**Integrated**
Course Code	**25FT21I**	**Contact Hours**	8Hrs/week 104 Hrs/Sem
Teaching Scheme	**L: T:P 4:0:4**	**Credits**	6
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

8. **Rationale:** Needle art and craft is a process of adding design and decoration to the fabric, developing a new product. It adds value to a garment and achieves enriching the articles with decorative accessories. This includes various regional and western Embroideries and crafts which helps the employability of the students.

9. **Course Outcomes: At** the end of the Course, the student will be able to:

CO-01	Application of different hand embroidery stitches in designing.
CO-02	Application of Appliqué work, cut work and mirror works in designing.
CO-03	Ability to understand the various patterns of knitting.
CO-04	Ability to develop the various patterns using crochet and braids and their applications.

10. **Course Content**

Week	CO	PO	Theory	Practice
1	**1**	**1,7**	**Introduction to Hand Embroidery**, Definition, Importance and uses Tools and equipment's used for embroidery: Frames/hoops, needle types, fabrics. Design transferring techniques -Tracing with carbon paper -Pricking and pouncing method.	Collect the samples of fabrics used for hand embroidery and prepare the report. Practice design transferring techniques.

2	**1**	**3,7**	**Classification of Hand Embroidery stitches**: Selection of design, fabric, thread, color combination. **Line stitch group**: Running, Backstitch, Stem stitch. Working method and applications.	Prepare the flow chart classification of hand embroidery stitches. Prepare the swatch of Line stitches using suitable motif- Running, Back stitch, Stem stitch.
3	**1**	**3,7**	**Cross stitch group:** Herring bone, Simple cross stitch, Fishbone stitch, Working method and applications **Loop stitch group:** Chain stitch, Laisy daisy stitch, Buttonhole, Spider web Working method and applications.	Prepare the swatch of Cross stitches using suitable motif- Simple cross stitch, Fishbone stitch. Loop stitches using suitable motif- Chain stitch, Laisy daisy stitch, open chain. Buttonhole, Spiderweb, Cast on stitch.
4	**1**	**3,7**	**Flat stitches group:** Satin stitch, Long and short stitch, Working method of satin and applications. **Knot Stitch group:** French knot, Bullion knot, Double knot. Working method and applications. **Composite stitch group:** Laced running, Whipped back stitch. Pekinese stitch Working method and applications.	Prepare the swatch of Flat stitches using suitable motif- Satin stitch, Long and short stitch, Padded satin stitch. Knot stitches using suitable motif- French knot, Bullion knot, Double knot. Composite stitches using suitable motif- Laced running, Whipped back stitch, Pekinese stitch.
5	**2**	**4,7**	**Appliqué work and network** Introduction and selection of design and preparation of templates. Study of stitches used for Applique work Working method and applications	Prepare the swatch of Applique work and network using suitable motif and stitches
6	**2**	**4,7**	**Cut work and Eyelet work** Introduction and selection of design Study of stitches used for Cut work Study of stitches used for Eyelet work, Working method and applications	Prepare the swatch of Cut work and Eyelet work using suitable motif and stitches
7	**2**	**4,7**	**Patch work** Introduction and selection of design and preparation of templates, Geometrical, Striped. Crazy, Yoyo patch work Study of stitches used for Patch work, Working method and applications	Prepare the swatch of Patch work using suitable motif and stitches- Any two
8	**2**	**4,7**	**Beads, Sequins, Mirror work.** Introduction and Selection of designs, motifs, Needles and threads and stitches used Working method and applications.	Prepare the swatch of Beads, Sequins, Mirror work using suitable motif and stitches-

9	**3**	**1,7**	**Introduction to Hand Knitting** Tools and equipment's, Yarns used for Knitting. Abbreviations used in Hand Knitting. Cast on and cast-off working method. Increasing and decreasing of stitches	Prepare the chart of abbreviations used in Hand Knitting. Practice – Cast on, cast off, Increasing and decreasing of knit stitches.
10	**3**	**1,7**	Knit stitch and Purl stitch construction and working method **Basic patterns** construction and working method- Garter, Stocking, Rib and Moss pattern Uses and applications.	Prepare the swatches of basic patterns Garter, Stocking, Rib and Moss
11	**3**	**4,7**	**Fancy patterns** working method and construction: Construction of any two fancy patterns **Cable patterns** working method and construction- any two Uses and applications of fancy and cable	Prepare the swatches of Fancy Patterns- one Cable Patterns- one
12	**4**	**1,7**	**Introduction to Crocheting,** tools and materials and yarns. Application and uses of Crochet patterns Crochet patterns- Single, double, triple patterns- Construction and working method of crochet patterns.	Prepare the swatches of Crochet Patterns- Single, double, Triple patterns.
13	**4**	**1,3,7**	**Introduction to Brading techniques**, materials, and yarns any two techniques Application and uses of Braiding Construction and working method.	Prepare the swatches of Braiding Patterns using different raw materials any one article

4. References:

Sl no	Books	Author
1	The Embroidery Handbook	Dhara Shah
2	A-Z Embroidery stitches	Classics
3	Embroidery Stitches	Lucinda Ganderton
4	Complete Guide for Needle work	Readers Digest
5	Complete Guide for Sewing and Knitting	Readers Digest

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
Total					**50 Marks**

6. SEE - Theory Assessment Methodologies

Sl. No	SEE – Theory Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Theory	90	50	20

7. CIE Theory Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester -II**	
Course Name	**Needle Art and Craft-I**			**Test**	**I/III**
Course Code	**25FT21I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q. No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Define Hand Embroidery. b) Discuss the importance and uses of Hand Embroidery. c) Explain the method of tracing designs on to the fabric. d)Distinguish between Back stitch and Running stitch.	R/U/A	1	25
2	a) List out the tools and equipment's required for Hand Embroidery b) Classify the hand embroidery stitches and give two examples for each c) Explain the working method of Back stitch with neat sketch. d) Distinguish between Cross stitch and Herringbone stitch.	R/U/A	1	
	Section - 2			
3	a) Define flat stitch group with examples. b) Discuss the suitable fabrics required for hand embroidery.	R/U/A	1	25

	c) Explain the working method of satin stitch with neat sketch. d) Distinguish between satin stitch and long and short stitch.			
4	a) List out the examples of loop stitches. b) Write a note on Composite stitches. c)Explain Applique work with neat sketch. d) Distinguish between laced running and whipped back stitch.	R/U/A	1	

Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman

8. CIE Practice Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester**	**II**
Course Name	**Needle Art and Craft-I**			**Test**	**II/IV**
Course Code	**25FT21I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					

Questions	**CO**	**Marks**
1) Trace the given design on to the fabric at the centre/corner. 2) Embellish the given design using Line stitches/Loop stitches/Cross stitches/Flat stitches/Composite stitches 3) Finishing and presentation.		**05** **40** **05**
Scheme of assessment **a)**Tracing design **b)**Embellishment **c)** Finishing and presentation		 **05** **40** **05**
	Total Marks	**50**

Signature of the Course Coordinator Signature of the HOD

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic

Sl. No.	**Suggestive Activities for Tutorials**
01	Prepare Coaster set using cross stitches
02	Prepare mobile pouch and embroider with appliqué work
03	Prepare sling bag and embroider with mirror, beads and sequins etc.
04	Prepare the table mat/Wall hanger/Kerchief hanger and embroider with Cut work
05	Prepare bonnet/cap using hand knitting
06	Prepare pair of socks/Booties/bonnet using hand knitting
07	Prepare bracelets/hair bands/ book page markers using any crochet pattern
08	Prepare key chain/ pot holder/ plant hanger using any braiding technique

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note:DimensionandDescriptorshallbedefinedbytherespectivecoursecoordinatoraspertheactivities

11. SEE–Model Theory Question Paper

Program	**Apparel Design and Fabrication Technology**	**Semester**	**II**
Course Name	**Needle Art and Craft-I**	**Marks**	**50**
Course Code	**25FT21I**	**Duration**	**90 Min**

Note: Answer any one full question from each section. Each full question carries equal marks.

Q No	Questions	Cognitive Levels	Course Outcomes	Marks
	Section -1			
1	a) Define Hand Embroidery. b) Discuss the importance and uses of Hand Embroidery.	R/U/A	1	5 5
2	a) List out the tools and equipment's required for Hand Embroidery b) Classify the hand embroidery stitches and give two examples for each	R/U/A	1	5 5
	Section - 2			
3	a) Define flat stitches with examples. b) Explain any two flat stitches with neat sketch.	R/U/A	1	5 5
4	a) List out the examples of loop stitches. b) Write a note on Composite stitches.	R/U/A	1	5 5
	Section -3			
5	a)List out the stitches, fabrics used for cut work. b) Explain Eyelet work and stitches used for the same with neat sketches.	R/U/A	2	5 5
6	a)List out the stitches, fabrics used for Applique work. b) Explain any two stitches used for Applique work with neat sketches.	R/U/A	2	5 5
	Section -4			
7	a) List out the abbreviations used in Knitting. b) Explain Cable and Fancy patterns with neat sketch.	R/U/A	3	5 5

8	a) List out the types of patterns of knitting. b) Explain the four types of yarns used in knitting.	R/U/A	3	5 5
Section -5				
9	a) Define Crochet work. b) Explain any two crochet patterns with neat sketches and explain its applications and uses.	R/U/A	4	5 5
10	a) Define Braiding. b)Explain the importance and uses of Braiding in household purpose.	R/U/A	4	5 5

12. Equipment/softwarelistwithSpecificationforabatchof30students

Sl.No.	Particulars	Specification	Quantity
01	Hoops/Frames	8-inch diameter	30
02	Tracing table with lamp	24” height X32” wide X26” length	2

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design and Fabrication Technology**	**Semester**	**2**
Course Name	**FIBER SCIENCE**	**Type of Course**	Integrated
Course Code	**25FT22I**	**Contact Hours**	8Hrs/week 104 Hrs/Sem
Teaching Scheme	L: T:P 4:0:4	**Credits**	6
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

1. Rationale:

Students are able to identify the classification of textile fibers and analyze their sources. Understand the manufacturing process of natural textile fibers. They will analyze the properties of various textile fibers, acquire the knowledge of uses of textile fibers. Also able to differentiate and identify the textile fibers and yarns.

2. **Course Outcomes:** At the end of the Course, the student will be able to:

CO-01	Understand and identify the classification of fibers.
CO-02	Analyze the properties of fibers and their application.
CO-03	Understand the manufacturing process of textile fibers.
CO-04	Identify the fibers by various testing methods.

3. Course Content

WEEK	CO	PO	Theory	Practice
1	1, 4	1,3,4	**Textile Fibers** Introduction to textile fibers and their classification. Sources of the textile fibers Staple and filament fibers Identification of textile fibers with technical and non-technical tests.	Preparing charts of classification of fibers and their uses. Collection of various textile fibers Illustrate compound microscope and label its parts and write the functions.
2	1, 3	1, 3	**Cotton** Introduction to cotton Cultivation and Harvesting of cotton	Collection and identification of cotton fabrics samples example: Muslin, Poplin, Chintz, denim, Casement.

			Ginning process of cotton	write a report Illustrate Ginning machine write the process of ginning
3	2,3	2,3,7	Mill process of cotton Types of Cotton By product of cotton Uses of cotton.	Preparing pictorial flow chart of mill process of cotton.
4	2, 4	2,7,4	Physical properties of cotton Chemical properties of cotton Microscopic appearance of cotton.	Conducting feeling and burning test of cotton. Conducting microscopic test and recording longitudinal & cross section view of cotton. (Aim, apparatus used procedure, observation and result.)
5	3	2, 3	**Linen:** Introduction to linen and its cultivation Harvesting of linen Manufacturing process of Linen fiber	Preparing pictorial Flow chart of manufacturing process of Linen fiber. Collection of linen fabrics write a report
6	2, 4	2,4,7	Physical properties of Linen Chemical properties. of Linen Uses of Linen. Microscopic appearance of linen	Conducting feeling and burning test of linen. Conducting microscopic test and recording longitudinal & cross section view of linen.
7	2,3,4	2, 3	**Wool:** Introduction to wool crimp and scale of wool fiber Wool producing countries Classification of wool by breed Classification of wool by fleece.	Make a report on crimp and scale of wool Collection of picture /samples of woolen and worsted fabrics.
8	2,3,4	2, 3	Manufacturing process of woolen and worsteds Differences between Wool and Worsteds	Preparing pictorial flow chart of manufacturing process of wool. Preparing pictorial flow chart of manufacturing process of Worsteds
9			Wool labeling Recycled wool Uses of wool.	Conducting feeling and burning test of wool.

	2,3,4	2, 3, 4,7	Physical Properties of wool. Chemical Properties of wool. Microscopic appearance of wool	Conducting microscopic test and recording longitudinal & cross section view of wool.
10	2,3	2, 3	**Silk**: Introduction and History of Silk. Silk producing Countries and Uses of silk. Sericulture, Life cycle of Silk Worm	Prepare a report on Life cycle of Silk Worm with neat sketch
11	2,3,4	2,3,4	**Different types of silk-** wild silk, Raw Silk, Degummed silk, Spun Silk	Collection of pictures/samples Different types of silk and its features
12	1,2,4	1,2,7	Physical Properties of silk Chemical Properties of silk microscopic appearance of silk	Conducting feeling and burning test of silk. Conducting microscopic test and recording longitudinal & cross section view of silk.
13	2,3,4	1,3,7	**Manmade fibers.** Polyester, rayon, nylon Properties of manmade fibers. Differences between natural and manmade fibers.	Collection of different manmade fibers. Polyester, rayon, nylon, acrylic, spandex, Lycra, elastomeric and mention its application

4. References:

1. Fibre to fabric – Bernad .p corbmen
2. Introduction textile –Kanverveerendra pal singh
3. A Text book of Fibre science & Technology- S P mishra Textile science- L D vilensky E P G Gohi
4. Fibre science and technology, 1st EditionDr Premamoy Ghosh
5. House hold textile and laundry work –Durga delkar
6. Textile science- L D vilensky E P G Gohi

5. CIE Assessment Methodologies

Sl. No	**CIE Assessment**	**Test Week**	**Duration (minutes)**	**Max marks**	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	

4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 Marks**

6. SEE - Theory Assessment Methodologies

Sl. No	SEE – Theory Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Theory	90	50	20

7. CIE-Theory Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester -**	
CourseName	**FIBER SCIENCE**			**Test**	**I/III**
CourseCode	**25FT22I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answeranyonefullquestionfromeachsection.Eachfullquestioncarriesequal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Classify the fibers with their sources. b) Identify any five physical properties of cotton. c) Describe the mill process of cotton. d) Distinguish between natural and manmade fibers.	U R A A	1,2,3	5 5 5 10
2	a) Define filament and staple fibers. b) Enlist any three natural and three manmade fibers with their sources. c) Explain manufacturing process of linen. d) Illustrate any three physical and chemical properties of linen.5	U R A A	1,2,3	
	Section - 2			

3	a) Enlist four types of silk and uses of silk. b) Describe the life cycle of silk worm. c) Identify any five chemical properties of silk. d) Differentiate between raw silk and degummed silk.	U R A A	1,3,4	5 5 5 10
4	a) Classify the wool by breed and fleece. b) Describe the manufacturing of wool. c) Illustrate the microscopic view of silk and describe. d) Differentiate between woolen and worsteds.	U R A A	1,3,4	
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in 5 each section carry the same weightage of marks, cognitive level and course outcomes.				

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman

8. CIE Practice Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester**	**2**
Course Name	**FIBER SCIENCE**			**Test**	**II/IV**
Course Code	**25FT22I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1. Identify the given fiber samples by burning test/feeling test. 2. Analyze the microscopic view of the given fiber and draw the longitudinal view. 3. Inspect the given yarn samples and describe with neat sketch. 4. Folder				4,5	**10** **15** **15** **10**
Scheme of assessment a) Q1 10 marks b) Q2 15 marks c) Q3 15 marks d) Folder 10 marks					
				Total Marks	**50**

Signature of the Course Coordinator Signature of the HOD

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic

Sl.No.	Suggestive Activities for Tutorials
01	Collection of various textile fibers.
02	Draw compound microscope and label its parts.
03	Pictorial flow chart of mill processes of cotton.
04	Image of Ginning machine.
05	Collection of cotton fabrics 10x10cms for example: Muslin, Poplin, Chintz, Organdy, Casement etc.
06	Images of Microscopic view of natural fibers.
07	Images of Microscopic view of manmade fibers.
08	Image of Life cycle of Silk Worm.

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	AverageMarks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. SEE–Model Theory Question Paper

Program	**Apparel Design and Fabrication Technology**	**Semester**	**2**
Course Name	**FIBER SCIENCE**	**Marks**	**50**
Course Code	**25FT22I**	**Duration**	**90 Min**

Note: Answer any one full question from each section. Each full question carries equal marks.

Q No	Questions	Cognitive Levels	Course Outcomes	Marks
	Section -1			

1	a) Enlist any four the natural fibers with their sources. b) Distinguish between staple and filament fibers.	U A	1,2,3	5 5
2	a) Enlist the steps involved in manufacturing of cotton. b) Draw the cross-sectional views of the cotton and describe.	U A	1,3,4	5 5
Section -2				
3	a) Explain manufacturing process of linen. b) Identify any five physical properties of linen.	R A	1,2,3,4	5 5
4	a) Write the uses of linen. b) Differentiate between cotton and linen.	U A	1,2,3,4	5 5
Section -3				
5	a) Enlist any four wool producing countries. b) Describe wool labeling.	U R	1,2,3,4	5 5
6	a) Classify wool by fleece. b) Identify any five physical properties of wool.	U A	1,2,3,4	5 5
Section -4				
7	a) Enlist any four silk producing countries. b) Describe history of silk.	U R	1,2,3,4	5 5
8	a) Enlist four types of silk. b) Illustrate the life cycle of silk worm.	U A	1,2,3,4	5 5
Section -5				
9	a) Why rayon is called as Artificial silk. Explain. b) Differentiate between natural and manmade fibers.	A A	1,2,3,4	5 5
10	a) Define manmade fibers with examples b) Compare the properties of silk with rayon.	U A	2,4	5 5

12. Equipment/softwarelistwithSpecificationforabatchof30students

Sl.No.	Particulars	Specification	Quantity
01	Compound Microscope	Compound Binocular Optical Microscope, WF10x and WF25x Eyepieces, 40X-1000X Magnification, LED Illumination,	02
02	Lab safety gas burner	-	02
03	Test Tube Holder with wooden handle	-	15

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design & Fabrication Technology**	**Semester**	**Second**
Course Name	Pattern Illustration -II	**Type of Course**	Integrated
Course Code	**25FT23I**	**Contact Hours**	7Hrs/week 91 Hrs/Sem
Teaching Scheme	L: T:P 3: 0:4	**Credits**	5
CIE Marks	**50**	**SEE Marks**	**50 (Practice)**

1. **Rationale:** Pattern making is the art of translating a designer's basic idea for a garment into a real piece of apparel that fits the human body in a flattering way. Creating patterns for clothing production is a skilled practice. The detail and technique behind each pattern ensure that garments are made to specification with a minimal margin of error.

2. **Course Outcomes :**At the end of the Course, the student will be able to:

CO-01	Able to understand various paper patterns and its application.
CO-02	Ability to draft and construct various garments.
CO-03	Analyze the construction, prepare layout and estimate the fabric required for various garments.
CO-04	Application of various mending techniques on garments.

3. **Course Content**

WEEK	**CO**	**PO**	**Theory**	**Practice**
1	**1**	**1**	**Paper patterns**. Introduction to paper patterns. Principles and importance of paper pattern. Study of different types of paper pattern- Block pattern, Individual pattern, Graded pattern and Bought pattern.	Preparing patterns applying the principles of paper pattern. Preparing patterns applying the principles of paper pattern.
2			Introduction to **Summer Frock** with decorative neck and fashionable sleeve. Sketch and design the garment.	Pattern Drafting on Melton cloth. Preparing paper patterns of the garment.

	2	**3**	Measurements, Components, Suitable Fabric and Trimmings required. Garment Drafting & Construction – body part & skirt part	Sewing and assembling the garment.
3	**2,3**	**2,3**	Garment Drafting & Construction- sleeves, waist belt and frill piece. Layout and Estimation – direct layout of the garment Costing of the garment.	Sewing and assembling the garment. Finishing, Pressing and labeling. Rectifying defects if any.
4	**2**	**3**	Introduction to **Circular Frock/ Handkerchief Frock** -Front and Back decorative neck, circular sleeves with waist belt. Sketch and design the garment. Measurements, Components, Suitable Fabric and Trimmings required. Garment Drafting & Construction – body part & skirt part.	Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Sewing and assembling the garment.
5	**2,3**	**2,3**	Garment Drafting & Construction- circular sleeves, waist belt and placket. Layout and Estimation of the garment. Costing of the garment. Technical terms- Seam allowance, Grain line, construction line, lining, inlay, interlining, bias and true bias.	Sewing and assembling the garment. Finishing, Pressing and labeling. Rectifying defects if any.
6	**2**	**3**	Drafting and construction – Petal Sleeves, Bell sleeves and Bishop Sleeve Leg-O- Mutton Sleeves, Raglan Sleeves and Kimono Sleeves. Parts of Collar. Drafting of Mandarin collar, Bertha collar, Sailor Collar and Open Collar.	Preparing samples of any two types of sleeves. Preparing samples of any two types of collar.
7	**2**	**3**	Introduction to **Pleated Skirt and Open Collar shirt.** Sketch and design the garment. Measurements, Components, Suitable Fabric and Trimmings required. Garment Drafting & Construction – skirt part, waist band and side pocket	Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Sewing and assembling the garment.
8	**2,3**	**2,3**	Garment Drafting & Construction- Shirt front & back part Drafting & Construction - sleeves, patch pocket & open collar. Layout and Estimation. Technical terms -Scye depth, neck height, Gusset, Sleeve cap and ease	Sewing and assembling the garment. Finishing, Pressing and labeling. Rectifying defects if any.

9 **9**	**2**	**2**	Introduction to **Skirt Top with Yoke, fancy sleeve and collar**. Sketch and design the garment. Measurements, Components, Suitable Fabric and Trimmings required. Garment Drafting & Construction – skirt part and waist belt.	Sewing and assembling the garment. Finishing, Pressing and labeling. Rectifying defects if any.
10	**2,3**	**2**	Layout and Estimation – direct layout of the garment. Costing of the garment. Technical terms- Casing, Balance Points, notches, Fold line and yoke.	Sewing and assembling the garment. Finishing, Pressing and labeling. Rectifying defects if any.
11	**4**	**2**	**MENDING OF GARMENTS** Patching by hand and machine Darning by hand and machine Remodeling of garment	Preparing samples of patching and darning by hand and machine Preparing samples of any of the garment remodeling
12	**2**	**3,7**	Introduction to **Gored/ Panel Skirt.** Sketch and design the garment. Measurements, Components, Suitable Fabric and Trimmings required. Garment Drafting & Construction – skirt front & back part.	Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Sewing and assembling the garment.
13	**2,3**	**2**	Garment Drafting & Construction- waist belt Layout and Estimation Costing of the garment. Technical terms- Gore, Godet, Panel piece. Empire line.	Sewing and assembling the garment. Finishing, Pressing and labeling. Rectifying defects

4. References:

1. Art of Sewing – Anna Jacob Thomas
2. Metric Pattern Cutting for children wear II Edition, Blackwell Science. -Winifred Aldrich
3. Complete Guide for sewing – Readers Digest.
4. More Dress Pattern Designing Fourth Edition, Blackwell Science. – Natalie Bray.
5. Dress Pattern Designing. - Natalie Bray

5. CIE Assessment Methodologies

Sl. No	**CIE Assessment**	**Test Week**	**Duration (minutes)**	**Max marks**	
1.	CIE-1TheoryTest	4	90	50	

2.	CIE-2Practice Test	7	180	50	Average of all CIE=50 Marks
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 arks**

6. SEE – Practice Assessment Methodologies

Sl. No	SEE – Practice Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Practice	180	50	20

Note: Retain SEE – Theory Table if there is theory End examination or SEE – Practice Table if there is practice End examination

7. CIE Theory Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester - II**	
Course Name	**Pattern Illustration-II**			**Test**	**I/III**
Course Code	**25FT23I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Define paper pattern. b) Explain the principles of paper pattern. c) Compare Individual and graded pattern. d) Analyze the importance of block pattern in Apparel	R U A A	1	5 5 5 10

	industry.			5
2	a) List the advantage of individual pattern. b) Classify the different types of paper patterns. c) Identify and explain the paper pattern used in Garment industry. d) Differentiate Block pattern and Bought pattern.	R U A A	1	5 5 10
Section - 2				
3	a) List the measurements required for summer frock. b) Illustrate and colour a summer Frock. c) Construct Summer Frock for the given measurements. d) Draft a layout of Summer Frock for the given measurements and estimate the fabric required for the same.	R U A A	2	5 5 5 10
4	a) List the trimmings required for circular frock. b) Summarize the measurements required for Circular Frock c) Construct Circular Frock for the given measurements. d) Analyze the application of the following technical terms in garments. i) Godet ii) Gore iii) Gusset iv) Yoke v) Scye depth	R U A A	2	5 5 5 10
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.				

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman

8. CIE Practice Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester**	**II**
Course Name	**Pattern Illustration-II**			**Test**	**II/IV**
Course Code	**25FT23I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1. Prepare paper pattern for a Circular skirt for the given measurements 2. Draft, Cut and Stitch the above garment. 3. Finish and press the given garment.				**2**	**50**
Scheme of assessment					05

a) Preparation of paper pattern. b) Cutting all components. c) Fabrication of the garment. d) Finishing and pressing	10 30 05
Total Marks	**50**

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic. **(Any Two)**

Sl.No.	**Suggestive Activities for Tutorials**
01	Prepare a cushion cover with crazy patch work.
02	Prepare a garment using remodeling technique.
03	Prepare a Trendy frock with decorative neckline and sleeve.
04	Prepare a swatch of machine darning.
05	Prepare a trendy skirt implementing your own design.
06	Develop any two decorative sleeves.

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. SEE- Model Practice Question Paper

Program	**Apparel Design and Fabrication Technology**		**Semester**	**II**
Course Name	**Pattern Illustration-II**	**Course Code: 25FT23I**	**Duration**	**180 min**
Questions			**CO**	**Marks**
1. Prepare paper pattern for a Summer Frock/ Circular Frock/ Pleated Skirt/ Skirt Top with yoke, fancy sleeve and collar/ Gored Skirt for the given measurements 2. Draft, Cut and Stitch the above garment. 3. Finish and press the given garment.			**2**	**50**
Scheme of assessment **a**) Preparation of paper pattern. b) Cutting all components. c) Fabrication of the garment. d) Finishing and pressing.				05 10 30 05
			Total Marks	**50**

1) Signature of the Examiner **2) Signature of the Examiner**

12. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	High Speed power Operated Sewing Machine	Single needle, Needle bar stroke: 41.2, machine speed 4000-5000 RPM, thread trimmer, Less noise and environmental friendly.	30
02	High Speed over Lock Sewing Machine	Single needle, 3 thread, speed 6500 SPM, automatic lubrication, stitch length 2-4mm	04
03	Automatic Zig-Zag Machine	Fully automatic lubrication, sewing speed 5000 spm, stitch width5.0mm	05

04	Automatic Zig-Zag Machine	Fully automatic lubrication, sewing speed 5000 spm, stitch width5.0mm	05
05	Cutting Table	Size-1200mm,1500mm,1800mm ideal height should be slightly above elbow height when seated.	10
06	Plastic / Metal L Square	24 inches x 12 inches arm curve	30
07	Plastic French curve with Shaper	Plastic or fiber material Height 2mm and width 4cms	30
08	Industrial Steem iron	Voltage-220v, power 1200w frequency 50-60Hz	02
09	Wooden Stools with Cushion	Height 30inch,width 14inch, depth 14inch	30
10	Mannequins (Male, female and kid- Boy & Girl)	6 feet, Fiber material with SS base plate	04

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**ADFT**	**Semester**	**2**
Course Name	**FASHION SKETCHING**	**Type of Course**	Integrated
Course Code	**25FT24I**	**Contact Hours**	7Hrs/week 91 Hrs/Sem
Teaching Scheme	L: T:P 3:0:4	**Credits**	
CIE Marks	**50**	**SEE Marks**	**50 (Practice)**

1. **Rationale:** Fashion sketching is an exciting course that combines artistry, creativity, and business acumen. As a designing industry, it significantly impacts the global economy. Fashion designers are tasked with creating visually appealing and functional garments and accessories, requiring knowledge of Current trends, fabrics, and technologies, as well as marketing skills to promote their designs effectively.

2. Course Outcomes: At the end of the Course, the student will be able to:

CO-01	Adapt artistic abilities to support future design careers.
CO-02	Illustrate various Textile motifs on fashion fabrics
CO-03	Analyze the significance of fashion show, forecasting, photography and visual communication
CO-04	Application of traditional costumes and translate ideas into designs

3. Course Content

WEEK	CO	PO	Theory	Practice
1	**1**	**1,3,7**	**Fabric Painting Techniques** strokes and its application in fabric designing stencil and Spray, Impression: Thread, paper, Vegetables	**Fabric Painting Techniques** **Impression:** Thread, sponge, Vegetables **Painting Techniques :** Spray, stencil and strokes Create an article using above techniques
2	**1**	**1,3,7**	**Fabric Painting Techniques** Canvas Painting	Prepare a sample using Canvas, glass and pot painting

			Glass Painting Pot painting	
3	**1,2**	**1,3,7**	**Introduction to motifs:** Classification and application of motifs in fashion and textile designing Natural Motif, Geometric Motif, Stylized Motif, Abstract Motif, Traditional motifs symmetrical and Asymmetrical Motifs	**Motif Development** Designing Different types of Motifs using different color mediums Enlargement and Reduction of Motif
4	**1,2**	**1,4**	**Design repeats:** Types of repeats and its application Block repeat, Brick repeat, Cross repeat	**Creating Design repeats:** using any one types of above motifs for the following repeats Block repeat, Brick repeat
5	**1,2**	**1,4**	½ drop repeat, 1/4th repeat, 3/4th repeat, Diamond repeat Toss repeat or random repeat	½ drop repeat, 1/4th repeat, 3/4th repeat, Diamond repeat Toss repeat or random repeat
6	**1,2,4**	**1,4,5**	**Innovative fashion terminologies:** Sustainable fashion-reduce, reuse, reproduce, Digital fashion, Color and fashion forecasting	Prepare any one product adapting sustainable fashion Report on color and fashion forecasting
7	**2,3**	**3,5,7**	Fashion shows and fashion weeks, fashion photography and fashion journalism Fashion promotion and social media	Creating collage using fashion photography Promotion of created products - using suitable social media instagram/blogs/reels/watsapp etc
8	**2,3**	**1,5**	**Fabric rendering techniques:** Learning to simulate textures of various fabrics – Fur, net, leather, Velvet, denim Printed fabrics.	**Fabric rendering techniques :** Learning to simulate textures of various fabrics -fur, net, leather, velvet, denim and printed fabrics
9	**2,3**	**3,5**	**Introduction to different types of Clothing** Introduction to different types of Clothing and suitable accessories Casual wear Formal wear	Illustrations- (male and female) Casual wear -any one Formal wear – any one Sportswear- any one

			Sportswear	
10	**2,3**	**3,5**	Bridal wear, Party wear, Indo western wear and their Importance and uses	Illustration of (male and female) with accessories - any one indo western wear Party Wear Bridal wear
11	**1,4**	**3,5,7**	**Traditional costumes of India** Traditional male and female costumes of West Bengal, Kashmir, Rajasthan,	Illustration of following Traditional costumes of India male and female West Bengal, Kashmir, Rajasthan
12	**1,4**	**3,5,7**	**Traditional costumes of India** Traditional male and female costumes of Maharashtra, Tamil Nadu Kerala and Karnataka	Illustration of following Traditional costumes of India male and female Maharashtra, Kerala and Karnataka
13	**1,4**	**3,5,7**	**Traditional costumes of world** Traditional male and female costumes – Kimono of Japan Toga of Rome Costumes of Egypt	Illustration of following Traditional costumes of Kimono of Japan Toga of Rome Costumes of Egypt

4. References:

1. Fashion Source Book by Kathryn Mckelvey Blackwell Science
2. Encyclopedia of fashion details by Patrick John Ireland Batsford
3. Fashion Sketchbook by Abling Fairchild Publications Illustrating Fashion by Kathryn MckelveyBlackwell Series.
4. Fashion Design, drawing by Elisabetta Drudi Batsford and presentation.
5. Fashion Kaleidoscope by Meher Castelino Rupa and company Indian Fashion by Hindol Sengupta Pearson Education
6. Peter Lindbergh: A Different Vision on Fashion Photography
7. Sustainable fashion and textiles: Design journeys by Kate Fletcher

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 Marks**

6. SEE – Practice Assessment Methodologies

Sl. No	SEE – Practice Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Practice	180	50	20

Note: Retain SEE – Theory Table if there is theory End examination or SEE – Practice Table if there is practice End examination

7. CIE Theory Test model question paper

Program	**ADFT**			**Semester -2**	
CourseName	FASHION SKETCHING			**Test**	**I/III**
CourseCode	**25FT24I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					
Q.No	**Questions**		**Cognitive Level**	**Course Outcome**	**Marks**
Section - 1					

1	a) Explain the importance of state costumes	R/U	1,2,4	5
	b) Distinguish between symmetrical and Asymmetrical Motifs	A		5
	c) Write the importance of traditional costumes in fashion scenario	A		5
	d) Illustrate the Karnataka state costume using 10 ½ head male and female croquet	A		10
2	a) Describe history of Indian costumes	R/U	1,3,4	5
	b)Illustrate any three different fabrics used for fashion	A		5
	c) Analyze fashion and color forecasting	A		5
	d)Outline the advantages and disadvantages of social media in fashion industry.	A		10
Section - 2				
3	a) Discover the importance of Fashion week	R/U	1,3	5
	b) Distinguish between fashion show and fashion fair	A		5
	c) Discuss the elements of fashion photography	A		5
	d) Discuss the selection process of colors ,fabrics ,designs for bridal wear	A		10
4	a) Distinguish between Rajasthan traditional costume and Karnataka traditional costume	R/U	3,4	5
	b) Describe Fashion forecasting	A		5
	c)Analyze the importance of Sustainable fashion	A		5
	d) Illustrate the costumes of Egypt	A		10
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course out comes.				

Signature of the Course Coordinator **Signature of the HOD** **Signature of the IQAC Chairman**

8. CIE Practice Test model question paper

Program	**ADFT**			**Semester**	**2**
Course Name	FASHION SKETCHING			**Test**	**II/IV**
Course Code	**25FT24I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
a) Illustrate party wear with accessories b) Create a natural motif and show it in ½ repeat using 15x15 cms c) Create CUSHION COVER using any fabric painting techniques				1,3,4	**50**
Scheme of assessment **a) Illustration with coloring -10** **b) Repeats- 10** **c) Fabric painting techniques - 20** **d) Finishing and presentation -10**					50
				Total Marks	50

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive ofall possible activities of the course. Student and Faculty are encouraged to choose **any two** activities that are relevant to the topic

Sl.No.	**Suggestive Activities for Tutorials**
01	Collection of different state costume pictures with accessories
02	Preparation of fashion and color forecasting report by conducting survey
03	Prepare a report on fashion photography with examples
04	Idea generation for the creation fashion show
05	Identify the different medias for advertising for product promotion
06	Prepare a report on world costumes

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	AverageMarks=(8+6+2+2)/4=4.5						**5**

Note:DimensionandDescriptorshallbedefinedbytherespectivecoursecoordinatoraspertheactivities

11. **SEE- Model Practice Question Paper**

Program	**ADFT**		**Semester**	**2**
Course Name	FASHION SKETCHING	**CourseCode**	**Duration**	**180 min**
Questions			**CO**	**Marks**
A) Illustrate any INDO WESTREN WEAR for using 10½ female croque			**1,3,4**	**10**
B) Create an CUSHION COVER using fabric painting techniques				**20**
C) Create an stylized motif and show ½ repeats using 20x20 cms				**10**
D) Finishing and presentation				**10**
Scheme of assessment **a) Sketching -10** **b) Fabric painting-20** **c) Repeats -10** **d) Finishing and presentation-10**				
			Total Marks	**50**

2) Signature of the Examiner **2) Signature of the Examiner**

4. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	Drawing sheets, different color medias	Cartridge sheets, fevicryl	30
02	Collage materials, recycling materials	Paper, cloth etc.	30
03	Tracing board	With light	30

III SEMESTER

Government of Karnataka

DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design and Fabrication Technology**	**Semester**	**III**
Course Name	**Apparel Industry and Machineries**	**Type of Course**	**Integrated**
Course Code	**25FT31I**	**Contact Hours**	**8 Hrs/week 104Hrs/sem**
Teaching Scheme	**L: T:P 4:0:4**	**Credits**	**6**
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

1. **Rationale:** Apparel Industry and Machineries - A study of development of Apparel Industries and the different types of machineries utilized in the production of Apparels, systems of production, flow process of various departments in the industry. This helps the employability of the students in the Apparel firm.

2. **Course Outcomes: At** the end of the Course, the student will be able to:

CO-01	Ability to understand the Evolution, classification, and Organizational structure of Apparel Industry
CO-02	Ability to understand the and various departments and machineries of Apparel Industry.
CO-03	Ability to understand Industrial sewing machines.
CO-04	Ability to understand the defects causes remedies and care and maintenance, modern applications used in Apparel Industry.

3.Course Content

Week	CO	PO	Theory	Practice
1	**1**	**1,7**	Evolution of Apparel Industry Classification of Apparel Industry. Ready to wear apparels, Export Garments.	Prepare the report on Evolution of Apparel Industry with pictures. Prepare the report on Classification of Apparel Industry.
2	**1**	**1,7**	Introduction to Indian Apparel Industry. Importance of Apparel Industry. Organizational structure of Apparel Industry.	Prepare a presentation on top brands of Apparel Industry. Draw the flow chart of Organizational structure of Apparel Industry prepare the report.

3	**2**	**1,7**	Introduction to various departments of Apparel Industry with flow chart. Specification Sheet-Importance and uses. Functions of Merchandising department. Role and responsibilities of Merchandisers.	Draw the flow chart of various departments of Apparel Industry prepare the report and give a presentation. Prepare a Specification sheet of Men's Formal Shirt.
4	**2**	**1,7**	Sampling Department - Types of sampling- Proto type, Photo sample, Size set, Fit sample, Pre-production, Production sample. Functions of Pattern making department Fabric Sourcing- Domestic and International sourcing.	Prepare the report on types of Sampling done in Apparel Industry with pictures. Prepare the report on types of Pattern Making used in Apparel Industry
5	**2**	**4,6**	Functions of Purchase and Stores department Functions of Production Planning and control Functions of Quality Control department	Prepare the presentation on functions of Production planning Quality control.
6	**2**	**4,6**	Four Point system of fabric inspection. Spreading-Types of spreading machines Manual and computerized spreading machines, Techniques of spreading-Flat and steeped.	Prepare the report on fabric four - point inspection of 2 different fabrics samples. Calculation of defects using formula.
7	**2**	**4,6**	Cutting department- Types of cutting machines- Round knife, Band knife, Straight knife. Drilling machine, Die cutting. Plasma cutting, Laser cutting Computerized cutting machine.	Collect the pictures of different Cutting machines used in Apparel Industry and prepare report.
8	**3**	**4,6**	Introduction to Industrial Sewing Machines-Advantages and uses. Single needle lock stitch machine, Double needle lock stitch machine. Chain stitch machine, Bartack machine. Button Fixing machine, Button hole machine.	Prepare the samples using Industrial sewing machines Single needle lock stitch machine, Double needle lock stitch machine Button Fixing and Button hole and Bartack
9	**3**	**4,6**	Flat lock, overlock machine, Rivet fixing machine. Mid processing machines- Fusing machines Pocket creasing machine. Collar and Cuff turning machines.	Prepare the samples using Industrial sewing machines Flat lock Overlock
10	**2**	**4,6**	Introduction to Finishing machine used in Apparel Industries- Thread sucking machine, needle detector machine Stain removal machines/gun. Introduction to Pressing machines- Hand Iron and Steam iron.	Collect images and write the functions and uses of finishing machines. Shirt/Kids wear, and practice pressing with steam iron, fold, and pack it by using any available packing materials.

11	**4**	**1,4,6**	Introduction to Smart Apparel Industry. Application of Robotics in Apparel Industry. Application of AI in Apparel Industry.	Prepare presentation on Smart Apparel Industry. Robotics in Apparel Industry.
12	**3**	**1,4,6**	Sewing machine beds-flat bed, post bed, cylindrical bed, feed-off-arm bed. Industrial Sewing machine needles-Parts of sewing needle. Sewing threads and its properties, Thread packages-Cones, Bobbin, Spools, Cop	Collect images and write the functions and uses Sewing machine beds-flat bed, post bed, cylindrical bed, feed-off-arm bed. Draw the Industrial sewing machine needle and label the parts.
13	**4**	**1,2,7**	Common defects in Industrial sewing machines, causes and Remedies-Needle breakage. Thread breakage, Skipped stitches-with sketch Seam puckering. Looped stitches-with sketch Care and maintenance of Industrial Sewing machines.	Prepare the chart of Sewing Defects, causes and Remedies measures-with sketches. Prepare the report on Care and maintenance of Sewing machines-with pictures.

4. References:

Sl no	Books	Author	Publications
1	Clothing Technology	Verlag Europa	Verlag Europa Lehrmittel
2	Introduction to Clothing Manufacture	Gerry Cooklin	Willey Blackwell
3	Concepts of Apparel Manufacturing	Dr. Jyoti Bhasin Choudary	Evince pub
4	Apparel Manufacturing Sewn Product Analysis	Ruth E Glock/Grace/Kunz	Pearson
5	Apparel Industry	Richard M Jones	Wiley Blackwell

9. CIE Assessment Methodologies

Sl. No	**CIE Assessment**	**Test Week**	**Duration (minutes)**	**Max marks**	
1	CIE-1Theory Test	4	90	50	Average of all CIE=50 Marks
2	CIE-2 Practice Test	7	180	50	
3	CIE-3 Theory Test	10	90	50	
4	CIE-4 Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through	1-13		50	

	Rubrics				
Total					**50 Marks**

6. SEE - Theory Assessment Methodologies

Sl. No	SEE – Theory Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Theory	90	50	20

7. CIE Theory Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester -III**	
Course Name	**Apparel Industry and Machineries**			**Test**	**I/III**
Course Code	**25FT31I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q. No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Write brief note on Evolution of Apparel Industry. b) Explain the role of merchandisers in Apparel industry. c)Explain any two types of sampling. d) Draw the Organizational structure of Apparel Industry.	R/U/A	1 2 2 1	5 5 5 10
2	a) Write brief note on Apparel Industry. b) Explain the functions of Apparel Industry. c) Explain domestic and international fabric sourcing d) Draw the flow process chart of various departments of Apparel Industry.	R/U/A	1 2 2 1	
	Section - 2			
3	a) List out the role and responsibilities of merchandiser. b) Explain the functions of merchandising. c)Explain Pattern making. d)Compare the functions of Pattern Making and Cutting department.	R/U/A	2	5 5 5 10
4	a) List out the types of Industrial sewing machines. b) Explain any two Industrial sewing machines. c)Explain the Four point Inspection system. d) Compare the functions of Single needle and Double needle lock stitch machines.	R/U/A	3	

Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman

8. CIE Practice Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester**	
Course Name	**Apparel Industry and Machineries**			**Test**	**II/IV**
Course Code	**25FT31I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1) Draw the organizational chart of organizational chart of Apparel Industry. 2) Prepare Specification sheet for Men's formal shirt using standard size. 3) Prepare the chart of Sewing Defects, causes and Remedies measures-with sketches 4) Draw the flow chart of various departments of Apparel Industry prepare the report and give a presentation.					**10** **10** **10** **20**
Scheme of assessment **a)Q1** **b)Q2** **c)Q3** **d)Q4**					 **10** **10** **10** **20**
				Total Marks	**50**

Signature of the Course Coordinator Signature of the HOD

8. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic

Sl.No.	**Suggestive Activities for Tutorials**
01	Prepare Specification sheet for Women's Kurthi using standard size.
02	Collect the images of different machineries used in spreading fabric.
03	Collect the images of different machineries used in finishing apparels.
04	Prepare the samples of Button hole , Button fixing and bar tack
05	Prepare the chart for quality checks for Men's formal shirt.
06	Draw the flow process chart of sewing department.

07	Collect the information on different types of Industrial sewing machines and prepare the report.

9. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

9. SEE–Model Theory Question Paper

Program	**Apparel Design and Fabrication Technology**	**Semester**	**III**
Course Name	**Apparel Industry and Machineries**	**Marks**	**50**
Course Code	**25FT31I**	**Duration**	**90 Min**

Note: Answer any one full question from each section. Each full question carries equal marks.

Q No	Questions	Cognitive Levels	Course Outcomes	Marks
	Section -1			
1	a) Write brief note on Evolution of Apparel Industry. b) Explain the role of merchandisers in Apparel industry	R/U/A	1	5 5
2	a) Write brief note on Apparel Industry. b) Explain the functions of Apparel Industry.	R/U/A	1	5 5
	Section -2			
3	a) Explain any two types of sampling. b) Draw the Organizational structure of Apparel Industry.	R/U/A	1 2	5 5
4	a) Explain domestic and international fabric sourcing b) Draw the flow process chart of various departments of Apparel Industry	R/U/A	2 1	5 5
	Section -3			
5	a) List out the role and responsibilities of merchandiser. b) Explain the functions of merchandising.	R/U/A	2	5 5
6	a) Explain Pattern making. b)Compare the functions of Pattern Making and Cutting department	R/U/A	2	5 5
	Section -4			
7	a) Explain the Four point Inspection system. b) Compare the functions of Single needle and Double needle lock stitch machines.	R/U/A	3	5 5
8	a) List out the types of Industrial sewing machines. b) Explain any two Industrial sewing machines	R/U/A	3	5 5

Section -5				
9	a) Explain the smart apparel industry. b) Explain any one defect, causes and give remedy for the same.	R/U/A	4	5 5
10	a) Explain how to care and maintain the industrial sewing machines b) Explain the application of Artificial Intelligence in Apparel Industry.	R/U/A	4	5 5

10. Equipment/software list with Specification for a batch of 30 students

Sl. No.	Particulars	Specification	Quantity
01	Single needle lock stitch machine	1 HP motor-6000 SPM	10
02	Double needle lock stitch machine	1 HP motor-6000 SPM	5
03	Flat lock machine	5 thread-1800 spm	5
04	Overlock machine	5 thread-1300-sti/min	5
05	Button hole/Bartack machine	1HP motor-RH-9820-2500sti/mim	2
06	Button Fixing machine	1HP motor-2700-sti/mim	2

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**	**Semester**	**III**
Course Name	**Fabric Structural Design**	**Type of Course**	Integrated
Course Code	**25FT32I**	**Contact Hours**	**8 Hrs/week 104Hrs/sem**
Teaching Scheme	L: T:P 4:0:4	**Credits**	6
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

11. Rationale: Weaving and fabric formation techniques are important areas of study for students, particularly in fashion and apparel design. These techniques not only help students understand the basic principles of textile construction but also offer insights into innovative design, structural applications

12. Course Outcomes: At the end of the Course, the student will be able to:

CO-01	Able to acquire knowledge on yarns, types and properties
CO-02	Understand the mechanism of looms and weaving
CO-03	Representing the knowledge of weaves through point paper design.
CO-04	Learn the minor fabric formation techniques and its applications

13. Course Content

WEEK	CO	PO	Theory	Practice
1	**1**	1	**Yarns:** Introduction and Definition of yarns classification of yarns, properties and uses. Simple yarns: single yarn, ply yarn and cable yarn Spun yarn and filament yarn Monofilament and multi filament yarn	Collect swatches and make a report on single yarn, ply yarn and cable yarn Collect swatches and make a report on Spun yarn and filament yarn Monofilament and multi filament yarn
2	**1**	1,3	**Novelty yarns** Slub yarn, knot or Nub yarn, flake yarn, loop or boucle yarn, spiral or corkscrew yarn, Chenille Yarns properties and uses	Collect swatches and make a report on novelty yarns Prepare novelty yarns by using different fiber and yarn samples

3	**2**	1,4	**Yarn twist** Introduction and definition Importance of yarn twist Types of twist – S twist and Z twist	Determining Yarn Twist of various yarn samples using Yarn Twist Tester - Aim, Apparatus required, Procedure, Conclusion
4	**2**	1,4	**Yarn count** Introduction and definition Importance of yarn numbering systems Direct system of yarn count-Tex and denier Indirect system of yarn count- cotton count, metric count	Determining the Yarn count of various types of yarns using Beeslay's Balance. Aim, Apparatus required, Procedure, Conclusion Simple calculations on yarn count
5	**3**	1,3	**Looms:** Introduction to looms Parts of loom and its functions Primary and secondary motions of loom	Visit to hand loom /power loom weaving centers and make a report on parts and functions of loom
6	**3**	1,3	Power looms: rapier loom and projectile loom Differentiate between hand loom and power loom	Visit to hand loom /power loom weaving centers and make a report on parts and functions of loom
7	**3**	1,3	**Weaving** Introduction and definition of weaving Warp yarn, weft yarn and its properties Balance construction Types of selvedges	Identify warp yarn, weft yarn and selvedge of fabric Calculate thread count warp and weft using pick glass
8	**3**	1,3	**Classification of weaves**: Plain weave, Twill weave, Satin weave and its derivatives **Point paper design** Point paper design for Plain weave, basket weave and rib weave its properties and uses	**Point paper design**: Prepare point paper design with Design plan, draft plan peg plan and repeat unit for Plain weave, basket weave and rib weave
9	**3**	1,3	Point paper design for Twill weave, right hand twill weave and left hand twill weave its properties and uses Point paper design for Satin weave, warp face and weft face satin(sateen) weave its properties and uses	Prepare point paper design with Design plan, draft plan peg plan and repeat unit for Twill weave, right hand twill weave and left hand twill Satin and sateen weave
10	**4**	1,3,4	**Decorative weaves** Dobby weave, Jacquard weave, pile	Collect the swatches of decorative weave samples and make a report

			weave, lappet weave, leno weave its properties and uses	Create suitable designs for dobby and jacquard weave on graph sheet
11	**4**	1,3,4	**Knitted fabrics:** Introduction and definition of knits Properties and uses of knitted fabrics Differentiate between woven and knitted fabrics	Collect the swatches of various knitted fabrics plain knit, purl knit, rib knit, fleece knit and other fancy knit patterns
12	**4**	1,3,4	**Felts and net fabrics** Types of felts, properties and uses of felts Types of net fabrics, properties and uses of net fabrics	Collect the swatches of various felt and net fabrics make a report
13	**4**	1,3,4	**Non woven fabrics and braided fabrics** Properties & applications of non woven Types of braided fabrics, properties and uses	Collect the swatches of various Non woven fabrics and braided fabrics. Make a report on uses of non woven fabrics in the field of medical, hygiene, beauty, safety sector

14. References:

Bernad P Cobman "Fiber to Fabric" McGraw-Hill publication -1983
Grosicki Z.J, "Advanced Textile Design" - Textile Institute, Universal book publisher ltd, Mumbai 2007. 6.
N.Gokarneshan, "Fabric Structure and Design", New Age International Publishers, 1st Edition, New Delhi, 2004.
Grosicki Z, "Watson's Textile Design and colour" Universal Publication Corporation, Bombay

5. CIE Assessment Methodologies

Sl. No	**CIE Assessment**	**Test Week**	**Duration (minutes)**	**Max marks**	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 Marks**

10. SEE - Theory Assessment Methodologies

Sl. No	SEE – Theory Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Theory	90	50	20

7. CIE Theory Test model question paper

Program	APPAREL DESIGN AND FABRICATION TECHNOLOGY			Semester -III	
Course Name	FABRIC STRUCTURAL DESIGN			Test	I/III
Course Code	25FT32I	Duration	90 min	Marks	50
Name of the Course Coordinator:					
Note:Answeranyonefullquestionfromeachsection.Eachfullquestioncarriesequal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Define yarn and write the properties of yarn b)List out novelty yarn and explain any two c)Describe importance of yarn twist d)Differentiate between monofilament and multifilament , explain with neat sketch	R U U A	1	5 5 5 10
2	a)Define ply yarn and write the properties b)explain types of twist c)describe yarn numbering system d) Differentiate between spun yarn and filament yarn explain with neat sketch	R U U A	1	5 5 5 10
	Section - 2			
3	a)Define loom and list out the parts of loom b) Explain the uses of non woven fabrics c)Draw point paper design for plain weave d)Differentiate between warp and weft yarn explain with neat sketch	R U A AN	2	5 5 5 10 5

4	a)List out types of selvedge and explain any two b) Draw point paper design for 2x1 right weave c) Describe primary and secondary motions of loom d) Differentiate between hand loom and power loom draw ant two parts of loom	R U A AN	2	5 5 10
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in eachsectioncarrythesameweightageofmarks,cognitivelevelandcourseoutcomes.				

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman

8. CIE Practice Test model question paper

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**			**Semester**	**III**
Course Name	**FABRIC STRUCTURAL DESIGN**			**Test**	**II/IV**
Course Code	**25FT32I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1. Calculate the yarn count of given yarn samples using Beesley's balance 2. Analyze the yarn twist of given yarn sample using yarn twist tester 3. Identify the weave of given fabric sample using pick glass and draw point paper design				1 1 3	**20** **15** **15**
Scheme of assessment a) Yarn count b) Yarn twist c) Draw point paper design					**20** **15** **15**
				Total Marks	**50**

Signature of the Course Coordinator Signature of the HOD

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose **any two** activities that are relevant to the topic

Sl.No.	**Suggestive Activities for Tutorials**
01	Collect information on all type of yarn samples give presentation
02	Create a miniature loom and demonstrate the working method

03	Collect the samples of decorative weaves and male a portfolio
04	Collect the swatches of warp knit, weft knit and decorative knit fabrics
05	Write a report on non woven fabrics braided fabrics and net fabrics
06	Give a presentation on primitive loom to modern loom and make a report

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. SEE–Model Theory Question Paper

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**	**Semester**	**III**
Course Name	**FABRIC STRUCTURAL DESIGN**	**Marks**	**50**
Course Code	**25FT32I**	**Duration**	**90 Min**

Note: Answer any one full question from each section. Each full question carries equal marks.

Q No	Questions	Cognitive Levels	Course Outcomes	Marks
	Section -1			
1	a) Define yarn and write the properties of yarn b) Explain types of twist	R U	1	5 5
2	a) Define ply yarn and write the properties b) Describe yarn numbering system	R U	1	5 5
	Section -2			

3	a) Describe importance of yarn twist b) Differentiate between spun yarn and filament yarn	U AN	1 1	5 5
4	a) explain types of twist b) Differentiate between monofilament and multifilament	U AN	1 1	5 5
Section -3				
5	a) Define loom and list out the parts of loom b) Draw point paper design for plain weave	RU A	2 2	5 5
6	a) List out types of selvedge and explain any two b) Draw point paper design for 2x1 right weave	RU A	2 2	5 5
Section -4				
7	a)Define power looms, describe any one b)Differentiate hand loom and power loom	RU AN	3 3	5 5
8	a)) Define weaving, describe the primary motions of loom b)Compare missile loom and projectile loom	RU AN	3 3	5 5
Section -5				
9	a) List out the decorative weaves, explain any one b) Explain the properties of knitted fabrics	R A	4 4	5 5
10	a)List out the uses of braided fabrics b)Describe the properties of non woven fabrics	R A	4 4	5 5

13. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	Yarn twist Tester	Paramount model ply yarn twist tester	05
02	Bees Lay balance	Paramount model	05
03	Pick glass	1”base 10X magnification	30

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design & Fabrication Technology**	**Semester**	**Third**
Course Name	**Pattern Illustration -III**	**Type of Course**	Integrated
Course Code	**25FT33I**	**Contact Hours**	**7 Hrs/week 91 Hrs/sem**
Teaching Scheme	L: T:P 3: 0:4	**Credits**	5
CIE Marks	**50**	**SEE Marks**	**50**

1. **Rationale:** Pattern making is a highly skilled technique which calls for technical ability, and a sensitivity to interpret a design with a practical understanding of garment construction. For successful dress designing, patternmaking forms the fundamental step. This function connects design to production by producing paper templates for all components such as cloth, hemming, fusible etc. which have to be cut for completing a specific garment.

2. **Course Outcomes:** At the end of the Course, the student will be able to:

CO-01	Understand construction of various garments and related components.
CO-02	Understand and apply different terminologies used in apparel construction.
CO-03	Analyze and apply layout and estimation for various garments.
CO-04	Identify the defects and remedies in the garments.

3. **Course Content**

WEEK	**CO**	**PO**	**Theory**	**Practice**
1	**1**	**1**	1. Introduction to **Semi Katori Choli** – with fancy neck at back. 2. Sketch and design the garment. Measurements required, Components, Suitable Fabric and Trimmings. 3. Garment drafting & construction-front & back.	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment
2 **2**	**1,3,4**	**1,2**	1. Garment Drafting & Construction-sleeves, French belt, placket & neck finishing 2. Layout and Estimation of the garment. 3. Defects and remedies in choli - sloping shoulder, tightness at scye, bust area too tight, wrinkles at armhole.	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects if any.
3			1. Introduction to **Kalidar Kurta/ Fancy Kurtha**	1. Pattern Drafting on Melton cloth. Preparing paper patterns of

	1	**3,7**	2 Sketch and design the garment on eight head croque. Measurements required, Components, Suitable Fabric and trimmings. 3. Garment drafting & construction- front, back, Sleeves & neck finishing	the garment. 2. Fabrication of the Garment
4	**2, 3**	**3**	1. Technical terms- Godet, Princess line, Empire line, Panel Pieces, Top stitching, Cord piping. 2. Layout and Estimation of the garment. 3. Costing of the garment.	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects if any.
5	**1**	**3,7**	1. Introduction to **Salwar/ Surwar** 2. Sketch and design the garment on eight head croque. Measurements required, Components, Suitable Fabric and Trimmings. 3. Garment drafting & construction- Waist piece, leg piece & bottom piece	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment
6	**2, 3**	**2,3**	1. Technical terms- Symmetrical, asymmetrical, achkan, pivot, bias 2. Layout and Estimation lay of the garment 3. Precautions to be taken when floral design, one way design and two way design fabrics are used.	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment
7	**3**	**3,7**	1. Introduction to yokes, Uses and types of yokes - Pointed, Round, Scallop, Square, Asymmetric. 2. Introduction to cuffs, uses & types of cuffs-square edge cuff, round edge cuff, French cuff, Turn back cuff 3. Zipper attachments – Centered, Lapped and invisible zipper attachment.	1. Prepare samples of any two types of Yokes & cuffs 2. Prepare samples of any two zipper attachments
8	**1**	**3,7**	1. Introduction to **Basic Shirt for Boys** with Tie Collar, yoke, patch pocket. 2. Sketch and design the garment on six and half head croque. Measurements required, Components, Suitable Fabric and Trimmings. 3. Garment Drafting & Construction – shirt front, back, yoke part, sleeves, tie collar & patch pocket.	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
9	**2,3**	**2**	1. Technical terms- Fusing, canvas, Arm scye, Inter lining, Epaulettes, Flap. 2. Layout and Estimation of the garment. 3. Costing of the garment. Precautions to be taken when checks,	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects if any.

			plaids or stripe fabrics are used.	
10	**1**	**3,7**	1. Introduction to **Tunic Kurtha for Boys** with mandarin collar and patch pocket. 2. Sketch and design the garment on six and half head croque. Measurements required, Components, Suitable Fabric and Trimmings. 3. Garment Drafting & Construction – front, back & sleeves	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
11	**2,3**	**2,3**	1. Garment Drafting & Construction – placket, side pocket & stand collar 2. Layout and Estimation of the garment. **3** Costing of the garment. Technical Terms – Keyhole Neck, Roll-up Sleeve, Side Slits, Tie-ups.	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects if any.
12	**1**	**3,7**	1. Introduction to **Pleated shorts for Boys** 2. Sketch and design the garment on six and half head croque. Measurements required, Components, Suitable Fabric and Trimmings. 3. Garment Drafting & Construction – front, back, fly, fly catch, inside pocket & waist belt	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
13	**2,3,4**	**2,3,4**	1. Technical terms- Seat angle line, fork point, fly, fly catch, inside leg length, crotch depth. 2. Layout and Estimation – double pick lay of the garment 3**.** Costing of the garment Defects and remedies in shorts – Tight waist band, droopy crotch, Tight at hips, Gaping pockets.	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects if any.

4. References:

1. Metric Pattern Cutting for Menswear – Winifred Aldrich.
2. Metric Pattern Cutting for Women's wear – Winifred Aldrich.
3. Apparel Pattern Making: A Guide for Fashion Designers
4. Dress Making: The complete Step by Step Guide to Making your own clothes – Alison Smith
5. Pattern Cutting and Making up – Janet Ward
6. Patternmaking Made Easy – Connie Amaden- Crawford

5. CIE Assessment Methodologies

Sl. No	**CIE Assessment**	**Test Week**	**Duration (minutes)**	**Max marks**	

1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 Marks**

6. SEE – Practice Assessment Methodologies

Sl. No	SEE – Practice Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Practice	180	50	20

7. CIE Theory Test model question paper

Program	**Apparel Design & Fabrication Technology**			**Semester - III**	
Course Name	**Pattern Illustration-III**			**Test**	**I/III**
Course Code	**25FT33I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Illustrate Semi Katori choli and colour it. b) Identify the measurements required for choli and explain the method of taking the same. c) Choose the trimmings required for Semi katori choli. d) Draft a Semi katori choli for the given measurements	U A A A	1	5 5 5 10
2	a) Compare Princes line and Empire line. b) Draft a layout of Salwar for the given measurements and estimate the fabric required. c) Identify the application of plackets in garments.	U A A		

	d) Analyze the precautions to be taken while drafting on i) Floral design ii) One way design.	A		
Section - 2				
3	a) Analyze the precautions to be taken when drafting on one way design. b) Identify the defects and remedies –Tightness at scye and Dropping shoulder. c) Explain the following: i) Empire line ii) Panel piece d) Construct a Basic Shirt for the given measurements.	A A U A	2,3	5 5 5 10
4	a) Construct a Front and back Pleated Shorts for the given measurements. b) Identify the uses of cuffs and yokes. c) Explain symmetrical and asymmetrical design. d) Develop a layout of basic shirt for the given measurements and estimate the fabric required.	A A U A	2,3	
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.				

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman

8. CIE Practice Test model question paper

Program	**Apparel Design & Fabrication Technology**			**Semester**	**III**
Course Name	**Pattern Illustration-III**			**Test**	**II/IV**
Course Code	**25FT33I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1. Prepare paper pattern for a Semi katori choli for the given measurements 2. Draft, Cut and Stitch the above garment. 3. Finish and press the given garment.					**50**
Scheme of assessment a) Preparation of paper pattern. b) Cutting all components. c) Fabrication of the garment. d) Finishing and pressing					05 10 30 05
				Total Marks	**50**

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic

Sl.No.	Suggestive Activities for Tutorials
01	Prepare a katori choli for your measurements.
02	Prepare two samples of fancy yokes used in men's wear.
03	Prepare a choli with princess line.
04	Using Stripes, checks and plaid fabric prepare designer yokes- any two
05	Prepare a skirt with any one zip finishes.
06	Prepare any two fancy cuff used in ladies garments.

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. SEE- Model Practice Question Paper

Program	**Apparel Design & Fabrication Technology**		**Semester**	**III**
Course Name	**Pattern Illustration -III**	**Course Code 25FT33I**	**Duration**	**180 min**
Questions			**CO**	**Marks**
1.Prepare paper pattern for a Semi katori choli / Kalidar kurtha/ Fancy kurtha/Salwar/ Basic Shirt/ Tunic Kurtha/ Pleated Shorts for the given measurements 2. Draft, Cut and Stitch the above garment.				**50**

3. Finish and press the given garment.		
Scheme of assessment a) Preparation of paper pattern. b) Cutting all components. c) Fabrication of the garment. d) Finishing and pressing		05 10 30 05
	Total Marks	**50**

1.Signature of the Examiner **2) Signature of the Examiner**

12. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	High Speed power Operated Sewing Machine	Single needle, Needle bar stroke: 41.2, machine speed 4000-5000 RPM, thread trimmer, Less noise and environmental friendly.	30
02	High Speed over Lock Sewing Machine	Single needle, 3 thread, speed 6500 SPM, automatic lubrication, stitch length 2-4mm	04
03	Automatic Zig-Zag Machine	Fully automatic lubrication, sewing speed 5000 spm, stitch width5.0mm	05
04	Automatic Zig-Zag Machine	Fully automatic lubrication, sewing speed 5000 spm, stitch width5.0mm	05
05	Cutting Table	Size-1200mm,1500mm,1800mm ideal height should be slightly above elbow height when seated.	10
06	Plastic / Metal L Square	24 inches x 12 inches arm curve	30
07	Plastic French curve with Shaper	Plastic or fiber material Height 2mm and width 4cms	30
08	Industrial Steem iron	Voltage-220v, power 1200w frequency 50-60Hz	02

09	Wooden Stools with Cushion	Height 30inch,width 14inch, depth 14inch	30
10	Mannequins (Male, female and kid- Boy & Girl)	6 feet, Fiber material with SS base plate	04

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design and Fabrication Technology**	**Semester**	**III**
Course Name	**Needle Art and Craft-II**	**Type of Course**	Integrated
Course Code	**25FT34I**	**Contact Hours**	**7 Hrs/week 91Hrs/sem**
Teaching Scheme	L: T:P:: 3:0:4	**Credits**	5
CIE Marks	**50**	**SEE Marks**	**50 (Practice)**

1. Rationale: Needle art and craft is a process of adding design and decoration to the fabric, developing a new product. It adds value to a garment and achieves enriching the articles with decorative accessories. This includes various regional and western Embroideries and crafts which helps the employability of the students.

2. Course Outcomes: At the end of the Course,the student will be able to:

CO-01	Application of different regional embroidery.
CO-02	Application of different Tribal Embroidery
CO-03	Application of different Machine Embroidery
CO-04	Ability to care and maintain the embroidered articles, Computerized embroidery.

3. Course Content

Week	**CO**	**PO**	**Theory**	**Tutorial**	**Practice**
1	**1**	**1,3,7**	Introduction to Traditional/ Regional Embroideries of India. Definition, Importance and uses. Tools and equipment's used for Regional embroidery Frames/hoops, needle types, fabrics. Selection of fabric, designs, motifs, and threads and colors	Refer table-1	Collect the samples of motifs, threads, materials, and fabrics used for regional embroidery and prepare the report.
2	**1**	**1,3,7**	Introduction and origin of Kasuti of Karnataka. Selection of design, fabric, thread, colour combination and stitches. Working method and applications.	Refer table-1	Prepare the swatch of Kasuti of Karnataka - using suitable motif and stitches.
3	**1**	**1,3,7**	Introduction and origin of Kanthas of Bengal. Selection of design, fabric, thread, colour combination and stitches. Working method and applications.	Refer table-1	Prepare the swatch of Kanthas of Bengal - using suitable motif and stitches.
4	**1**	**1,3,7**	Introduction and origin of Phulkari of Punjab.	Refer table-1	Prepare the swatch of Phulkari of Punjab -

			Selection of design, fabric, thread, colour combination and stitches. Working method and applications.		using suitable motif and stitches.
5	**1**	**1,3,7**	Introduction and origin of Kashida of Kashmir. Selection of design, fabric, thread, colour combination and stitches. Working method and applications.	Refer table-1	Prepare the swatch of Kashida of Kashmir - using suitable motif and stitches.
6	**2**	**1,3,7**	Introduction and origin of Tribal Embroidery ➢ Warli embroidery of Maharashtra, ➢ Banjara embroidery of Rajasthan Selection of design, fabric, thread, colour combination and stitches. Working method and applications.	Refer table-1	Prepare the swatch of Tribal Embroidery using suitable fabric motif and stitches- ➢ Warli embroidery of Maharashtra, ➢ Banjara embroidery of Rajasthan
7	**2**	**1,3,7**	Introduction and selection of design of Aari embroidery -materials used for Aari work Study of stitches used for Aari work. 3)Working method and its applications.	Refer table-1	Prepare the swatch of Aari embroidery using suitable motif and stitches.
8	**3**	**1,3,7**	Introduction to Machine Embroidery-Preparation of sewing machine for free motion embroidery. Selection of designs, motifs, needles and threads and stitches used. Running stitch, Round Running stitch, Zig-zag running stitch, Stem stitch, Blanket stitch.	Refer table-1	Prepare the swatch of Running stitch, Round Running stitch, Stem stitchusing suitable motif and stitches.
9	**3**	**1,3,7**	Satin stitch, Long and short - Cording stitch, Pin work Selection of designs, motifs, needles and threads and stitches used.	Refer table-1	Prepare the swatch of-Satin stitch, Long and short, Cording stitch, Pin work.
10	**3**	**1,3,7**	Introduction to Applique work. Selection of designs, fabric, stitches and working method, uses and applications. Types of appliqué work: ➢ Cotton fabric Applique ➢ Net Applique ➢ Pile fabric applique	Refer table-1	Prepare the swatch of: Types of applique work: ➢ Cotton fabric Applique ➢ Net Applique ➢ Pile fabric applique
11	**3**	**1,3,7**	Introduction to Cutwork Selection of designs, fabric, stitches and working method, uses and applications. Types of Cutworks:	Refer table-1	Prepare the swatch of Types of Cutwork: ➢ Simple Cutwork ➢ Cutwork with bars

			➢ Simple Cutwork ➢ Cutwork with bars		
12	**3**	**1,3,7**	Introduction to Fancy Cutwork Selection of designs, fabric, stitches and working method, uses and applications. 3)Types of Fancy Cutwork: ➢ Cutwork with cotton net fabric ➢ Cutwork with mirror, beads, and sequins.	Refer table-1	Prepare the swatch of Types of Fancy Cutwork: ➢ Cutwork with cotton net fabric ➢ Cutwork with mirror, beads, and sequins.
13	**4**	**1,3,7**	Introduction to Computerized Embroidery. Functions uses and process of digital embroidery. Care and maintenance of embroidered articles	Refer table-1	Prepare the charts of: Functions and process of Digital embroidery. Care and maintenance of embroidered articles

4. References:

Sl no	Books	Author
1	Traditional Embroideries of India	Shailaja D Naik
2	Focus on Machine Embroidery	Kandi L Christian
3	Artfull Machine Embroidery	Bobbi Bullard
4	Complete Book of Machine Embroidery	Robby and Tony Fanning
5	Digitizing made easy	John Deef

5. CIE Assessment Methodologies

Sl. No	**CIE Assessment**	**Test Week**	**Duration (minutes)**	**Max marks**	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
Total					**50 Marks**

6. SEE – Practice Assessment Methodologies

Sl. No	**SEE – Practice Assessment**	**Duration (minutes)**	**Max marks**	**Min marks to pass**

1.	Semester End Examination-Practice	180	50	20

7. CIE Theory Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester -III**	
CourseName	**Needle Art and Craft-II**			**Test**	**I/III**
CourseCode	**25FT34I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section.Each full question carries equal marks.					
Q. No	**Questions**		**Cognitive Level**	**Course Outcome**	**Marks**
Section - 1					
1	a) Define Regional Embroidery. b) Explain Kasuti of Karnataka. c)Explain any four stitches used for Kasuti of Karnataka. d) Distinguish between Kasuti of Karnataka and Kashida of Kashmir.		R/U/A	1	25
2	a) List out the tools and equipment's required for Regional Embroidery b) Explain Kanthas of Bengal. c) Explain any four stitches used for Kanthas of Bengal. d) Distinguish between Kanthas of Bengal and Phulkari of Punjab.		R/U/A	1	
Section - 2					
3	a) Define Tribal Embroidery. b) Discuss the importance and uses Tribal Embroidery. c)Illustrate the suitable design for Banjara Embroidery and colour it neatly. d) Explain the working method of Banjara Embroidery with neat sketch.		R/U/A	2	25
4	a) List out the tools and equipment's required for Warli Embroidery b) Write the importance and uses of Warli embroidery. c)Illustrate the suitable design for Warli Embroidery and colour it neatly. d) Explain the working method of Warli Embroidery with neat sketch		R/U/A	2	
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.					

Signature of the Course Coordinator **Signature of the HOD** **Signature of the IQAC Chairman**

8. CIE Practice Test model question paper

Program	Apparel Design and Fabrication Technology			Semester	III
Course Name	Needle Art and Craft-II			Test	II/IV
Course Code	25FT34I	Duration	180 min	Marks	50
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1) Trace the given motif on to the fabric size 50 CMS X50 CMS at the center. 2)Embellish the motif with Machine Embroidery stitches: ➢ Running stitch ➢ Round running stitch ➢ Satin stitch ➢ Stem Stitch 3) Finishing of design.				**2**	**05** **35** **10**
Scheme of assessment **a)**Tracing the motif/design **b)** Machine Embroidery stitches **c)** Finishing of design.					 **05** **35** **10**
TotalMarks					**50**

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic.

Sl.No.	Suggestive Activities for Tutorials
01	Prepare Hand Kerchiefs using Running and Round Running stitches.
02	Prepare Cushion cover and embroider with appliqué work.
03	Prepare Hand bag and embroider with different cutwork techniques.
04	Prepare the table mat/Wall hanger/Kerchief hanger and embroider with variations of Satin stitches.
05	Prepare accessories using different types of machine embroidery stitches.
06	Prepare a Kids Yoke frock using different types of machine embroidery stitches.
07	Collect the information on Machine Embroidery and its importance and Application on dresses.
08	Prepare Potli/Batwa pouch bag and embroider using any suitable technique.

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. **SEE- Model Practice Question Paper**

Program			**Semester**	**III**
Course Name		**Course Code**	**Duration**	**180 min**
Questions			**CO**	**Marks**
1)Trace the given motif on to the fabric size 50 CMS X50 CMS at the center. 2)Embellish the motif with Machine Embroidery stitches: ➢ Running stitch ➢ Round running stitch ➢ Satin stitch ➢ Stem Stitch 3) Finishing of design.			**2**	**05** **35** **10**
Scheme of assessment **a)**Tracing the motif/design **b)** Machine Embroidery stitches **c)** Finishing of design.				**05** **35** **10**
			Total Marks	**50**

3) Signature of the Examiner **2) Signature of the Examiner**

12. Equipment/software list with Specification for a batch of 30 students

Sl. No.	Particulars	Specification	Quantity
01	Power operated Embroidery machines	½ HP motor	15
02	Tracing table with LED light		02
03	Embroidery frames	Wooden	30

IV SEMESTER

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design & Fabrication Technology**	**Semester**	**Fourth**
Course Name	**Pattern Illustration -IV**	**Type of Course**	Integrated
Course Code	**25FT41I**	**Contact Hours**	**8 Hrs/week 104Hrs/sem**
Teaching Scheme	L: T:P 4: 0:4	**Credits**	6
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

1. **Rationale:** Flat pattern takes a basic pattern and translates it into a 3D shape with muslin fabric, which is then transferred to paper. Flat pattern making helps to highlight the areas for movement and improves comfort for the wearer. Flat pattern and their manipulation equips individuals with the technical, creative and practical tools needed for innovation, efficient production and high-quality results in design and manufacturing.

2.Course Outcomes: At the end of the Course, the student will be able to:

CO-01	Create basic patterns as per standard measurement chart.
CO-02	Able to manipulate darts and tucks into innovative styles using flat pattern techniques.
CO-03	Adapt flat pattern techniques to transform two dimensional patterns into three dimensional garments.
CO-04	Compile the components manipulated using flat pattern techniques

3.Course Content

WEEK	CO	PO	Theory	Practice
1	**1**	**1**	1. Introduction to Flat pattern. 2. Pattern making terminologies – Pattern drafting, flat pattern making and basic pattern set, working patterns. 3. Terminologies used – Bowing, Skewing and trueing. 4. Blending and Equalizing.	1. Creating a document on flat pattern techniques, tools & equipment's 2. Study of dress forms
2	**1**	**3**	1. Study of standard measurement chart. 2. Preparing the form for measuring.	1. Preparing dress form and taking measurements as per standard chart

			3. Taking measurements on dress form – Circular and horizontal measurements. 4. Taking measurements on dress form – Vertical and strap measurements.	2. Preparing a model and taking personal measurements chart
3	**1**	**1**	**Introduction to Basic Blocks** 1 Drafting Front bodice block 2 Drafting back bodice block 3 Drafting basic sleeves block 4 Drafting skirt front & back block	1. Drafting front, back bodice & sleeve blocks as per standard measurement chart. 2. Drafting skirt front & back blocks as per standard measurement chart.
4	**2**	**3**	**Principles of Flat pattern.** **Introduction to dart manipulation** 1. Slash & spread technique - single dart series. 2. Slash & spread technique - double dart series. 3. Pivotal technique - single dart series. 4. Pivotal technique - double dart series.	1. Manipulate basic front bodice dart using Slash & spread technique. 2. Manipulate basic front bodice dart using Pivotal technique.
5	**3**	**3,7**	**Added Fullness - Designing with darts** 1. Insertion of pleats into basic block by adapting the dart 2. Insertion of gathers into basic block. 3. Insertion of flare into basic block. 4. Insertion of tuck-dart into basic block.	1. Manipulating basic bodice dart into pleats, gathers, flare & tuck-dart 2. Creating a fashionable top by manipulating the dart in bodice block
6	**1**	**3,7**	1. Introduction to **Formal Shirt for Men with** Tie Collar, Full sleeves with cuff, yoke and patch pocket. 2. Sketch and design the front and back of the garment on eight head croque. Measurements required Components, Suitable Fabric and Trimmings. 3. Garment Drafting & Construction – shirt front and back.	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
7	**1**	**3,7**	1. Drafting & Construction – yoke part, sleeves, tie collar & patch pocket. 2. Layout and Estimation of the garment 3. Costing of the garment. Technical terms: Fusing, Canvas, Interlining, Vent.	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects if any.
8	**3**	**3,7**	1. Introduction to stylelines. 2. Adaptation of block pattern into Classic princess styleline. 3. Adaptation of block pattern into Armhole princess styleline.	1. Adaptation of block pattern into Classic princess styleline. 2. Creating a Saree Blouse with styleline.

			4. Adaptation of block pattern into panel styleline.	
9	**4**	**3,7**	1. Introduction to Cowls. 2. Adaptation of block pattern into front cowl. 3. Adaptation of block pattern into back cowl. 4. Adaptation of block pattern into sleeve cowl.	1. Fabrication of the garment (Saree Blouse with styleline.) 2. Finishing and presenting the garment as per design analysis
10	**1**	**3,7**	1. Introduction to **Trouser for Men** with waist band, side pocket, Zip finishing and hip pocket. 2. Sketch and design the front and back of the garment on eight head croque. Measurements required Components, Suitable Fabric and Trimmings. 3. Garment Drafting & Construction – front and back	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
11	**4**	**3,7**	1. Drafting & Construction – Waist band, pocket piece, Placket piece. 2. Layout and Estimation of the garment 3. Costing of the garment. Technical terms: welt pocket, jetted pocket, Inseam pocket.	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects if any.
12	**4**	**3,7**	1. Adaptation of block skirt block into Draped skirt with cascade wrap 2. Pattern plot & manipulation of Draped skirt with cascade wrap 3**.** Design analysis (Style feature of the skirt) 4. Costing of the garment	1. Adaptation of skirt block into Draped skirt with cascade wrap. 2. Adaptation of skirt block into Draped skirt with cascade wrap.
13	**3**	**3,7**	1. Adaptation of skirt block into yoke skirt 2. Pattern plot & manipulation of yoke skirt 3. Design analysis (Style feature of the skirt) 4. Costing of the garment	1. Fabrication of the garment Draped skirt with cascade wrap 2. Finishing & presenting of the garment

4. References:

i) Principles Of Flat Pattern Design 4th Edition - Nora M. MacDonald
ii) Designing Clothes With The Flat Pattern Method – Sara Alm
iii) Pattern Making by the Flat Pattern Method – Hollen Norma R
iv) Pattern Making for Fashion Design - Helen Joseph Armstrong
v) Pattern Making by the Flat –pattern Method – Hollen, Norma R
vi) Metric Pattern Cutting for Menswear – Winifred Aldrich.

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 arks**

6. SEE - Theory Assessment Methodologies

Sl. No	SEE – Theory Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Theory	90	50	20

7. CIE Theory Test model question paper

Program	**Apparel Design & Fabrication Technology**			**Semester - IV**	
Course Name	**Pattern Illustration-IV**			**Test**	**I/III**
Course Code	**25FT41I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Analyze flat pattern technique. b) Analyze the terminologies used in flat pattern making.	A A	1	5 5

	i) working pattern ii) Bowing iii) Trueing iv) Basic pattern c) Compare Blending and equalizing. d) Construct a Basic Skirt block for standard measurements.	 A A		5 10
2	a) Analyze the preparation of dress form for measuring. b) Identify the horizontal measurements taken on a dress form. c) Analyze strap measurement. d) Classify the vertical measurements taken on a dress form.	A A A A	1	
Section - 2				
3	a) Identify the process involved in inserting the pleats. b) Analyze the dart manipulation using slash and spread technique for single dart basic block. c) Apply the pivotal technique of dart manipulation using double dart basic block. d) Analyze the insertion of flare using basic bodice block.	A A A A	3	5 5 5 10
4	a) Analyze the insertion of gathers in basic bodice block. b) Identify the process involved in adapting classic princess styleline from a basic bodice block. c) Analyze the adaptation of basic skirt to yoke skirt. d) Analyze the adaptation of basic skirt block to wrap skirt with cascade wrap.	A A A A	3	
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.				

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman.

8. CIE Practice Test model question paper

Program	**Apparel Design & Fabrication Technology**			**Semester**	**IV**
Course Name	**Pattern Illustration-IV**			**Test**	**II/IV**
Course Code	**25FT41I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1. Develop a basic bodice block for the standard measurement. 2. Adapt the basic bodice block to a classic princess styleline.				**4**	**50**

3. Construct a Fashionable Top adapting the above pattern and fabricate the garment.		
Scheme of assessment **a**) Preparation of basic block. b) Adaption of basic pattern. c) Fabrication of the garment d) Finishing and presentation.		10 10 25 05
	Total Marks	**50**

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic

Sl.No.	Suggestive Activities for Tutorials
01	Using slash and spread technique create a garment of your own choice.
02	Adapt princess styleline and create a designer blouse.
03	Using basic sleeve block, develop any fancy sleeve and fabricate the same.
04	Develop a circular skirt using basic skirt block.
05	Develop a cowl top using basic bodice block.
06	Best out of waste – create a garment using waste materials.

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

11. SEE–Model Theory Question Paper

Program	**Apparel Design & Fabrication Technology**	**Semester**	**IV**
Course Name	**Pattern Illustration-IV**	**Marks**	**50**
Course Code	**25FT41I**	**Duration**	**90 Min**

Note: Answer any one full question from each section. Each full question carries equal marks.

Q No	Questions	Cognitive Levels	Course Outcomes	Marks
	Section -1			
1	a) Analyze flat pattern technique. b) Compare Blending and equalizing.	A A	1	5 5
2	a) Analyze the preparation of dress form for measuring. b) Identify the horizontal measurements taken on a dress form.	A A	1	5 5
	Section -2			
3	a) Identify the process involved in inserting the pleats. b) Analyze slash and spread technique.	A A	2	5 5
4	a) Analyze the insertion of gathers in basic bodice block. b) Identify the process involved in adapting classic princess styleline from a basic bodice block.	A A	2	5 5
	Section -3			
5	Construct a Formal Shirt for the given measurements.	A	2	10
6	Construct a Trouser for the given measurements.	A	2	10
	Section -4			
7	a) Classify Stylelines. b) Develop a panel styleline from basic block.	A A	3	5 5
8	a) Analyze Cowl. b) Construct a front cowl adapting a basic bodice block	A A	3	5 5
	Section -5			
9	a) Analyze Drape skirt. b) Develop a Yoke skirt from a drape skirt with	A A	4	5 5

	cascade wrap.			
10	a) Differentiate Basic sleeve and cowl sleeve. b) Analyze the adaptation of basic skirt to yoke skirt	A A	4	5 5

12. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	High Speed power Operated Sewing Machine	Single needle, Needle bar stroke: 41.2, machine speed 4000-5000 RPM, thread trimmer, Less noise and environmental friendly.	30
02	High Speed over Lock Sewing Machine	Single needle, 3 thread, speed 6500 SPM, automatic lubrication, stitch length 2-4mm	04
03	Automatic Zig-Zag Machine	Fully automatic lubrication, sewing speed 5000 spm, stitch width5.0mm	05
04	Automatic Zig-Zag Machine	Fully automatic lubrication, sewing speed 5000 spm, stitch width5.0mm	05
05	Cutting Table	Size-1200mm,1500mm,1800mm ideal height should be slightly above elbow height when seated.	10
06	Plastic / Metal L Square	24 inches x 12 inches arm curve	30
07	Plastic French curve with Shaper	Plastic or fiber material Height 2mm and width 4cms	30
08	Plastic skirt curve	Plastic or fiber material Height 2mm and width 4cms	30
09	Industrial Steam iron	Voltage-220v, power 1200w frequency 50-60Hz	02
10	Wooden Stools with Cushion	Height 30inch,width 14inch, depth 14inch	30
11	Mannequins (Male, female and kid- Boy & Girl)	6 feet, Fiber material with SS base plate	04
12	Dress form - Male	Best Quality Fiberglass, **Size 10 >** Bust: 36.5, Waist: 27.5, Hips: 38.	04

13	Dress form - Female	Best Quality Fiberglass **Size 8 >** Bust: 34.5, Waist: 25.5, Hips: 36.5	04

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**ADFT**	**Semester**	**4**
Course Name	TRADITIONAL AND TECHNICAL TEXTILES	**Type of Course**	Integrated
Course Code	**25FT42I**	**Contact Hours**	**8 Hrs/week 104Hrs/sem**
Teaching Scheme	L: T:P 4:0:4	**Credits**	6
CIE Marks	**50**	**SEE Marks**	**50 (Theory)**

1. Rationale:

The course on traditional and technical textiles, helps in understanding the historical back grounds of Indian traditional printed textile and their development of design, fabric uses and technical details. Technical textiles is a fast-growing sub-segment that finds its usage in an array of sectors. The end use application of technical textiles is widespread and seen in industries such as agriculture, construction, sports apparel, healthcare etc.

2. Course Outcomes: At the end of the Course, the student will be able to:

CO-01	Analyze various traditional textiles of Ancient period.
CO-02	Identification and application of traditional printing methods on fabrics.
CO-03	Develop and implement various regional paintings.
CO-04	Application of technical textile in various fields.

3. Course Content

WEEK	**CO**	**PO**	**Theory**	**Practice**
1	**1**	**1,7**	**Indian Textiles –** Introduction to Pre-historic and Indus Valley region **Traditional Textiles:** Classification and importance of Traditional Textiles.	Prepare presentation for Indus Valley region. Collect the images of various Traditional Textiles of India
2	**2**	**1,3,7**	Introduction, Origin, Definition, Techniques of Traditional Manufacturing, Cost, Types: **Traditional Sarees-** Dacca & Jamavars of West Bengal, Jamadani of Uttar Pradesh	Prepare swatches of Traditional Saree Border/Pallu using following paintings: Jamavars of West Bengal, Jamadani of Uttar Pradesh

3	**2**	**1,3,7**	Chanderi of Madhya Pradesh Brocades of Varanasi	Prepare swatches of Traditional Saree Border/Pallu using following paintings: Chanderi of Madhya Pradesh Brocades of Varanasi
4	**2**	**1,3,7**	Patola of Gujarat Kanchipuram of Tamilnadu, Pochampalli, of Andra Pradesh-Telangana,	Prepare swatches of Traditional Saree Border/Pallu using following paintings: Patola of Gujarat Pochampalli, Andra Pradesh-Telangana,
5	**2, 3**	**1,3,7**	Mokalamuru of Karnataka, Paithani of Maharastra, **Painting:** Introduction to Indian Paintings. history, Colors and motifs used.	Prepare swatches of Traditional Saree Border/Pallu using following paintings: Mokalamuru of Karnataka, Paithani of Maharastra, Illustrating different motifs used in Indian Paintings.
6	**3**	**1,3,7**	Mysore Paintings, Tanjore Paintings, Murals Painting of Kerala	Prepare Presentation on: Mysore Paintings, Tanjore Paintings, Murals Painting of Kerala
7	**3**	**1,3,7**	**Traditional Paintings:** Introduction- Madhubani Paintings Warli Paintings	Prepare swatches of: Madhubani Paintings Warli Paintings
8	**3**	**1,3,7**	**Kalamkari:** Introduction Preparation of cloth and selection of design. Procedure, Advantages and uses.	Prepare swatches of Kalamkari painting.
9	**4**	**1,3,4,7**	**Technical textiles:** Introduction of technical textiles Classification of technical textiles Application and uses of: Geo tech, Medi tech Agro tech, Build tech	Collect the images/ swatches of. Geo tech, Medi tech, Agro tech, Buildtech. Prepare presentation for technical textiles.
10	**4**	**1,3,4,7**	Cloth tech, Home tech, Indu tech (industrial textiles), Pro tech, Sport tech.	Collect the images/swatches of Cloth tech, Home tech and Indu tech, Protech, Sport tech. Prepare presentation for above technical textiles.
11	**4**	**1,3,4,7**	Mobile tech (Textile used in transport, automotive and aero space), Pack tech Oekotech or Echo tech (Environmentally friendly textiles). Present scenario & scope of technical textiles.	Collect the images/swatches of. Mobile tech, Oekotech or Echo tech, Pack tech Prepare presentation for above technical textiles.
12	**4**	**1,3,4,7**	**Smart textiles:** Introduction, scope, importance and uses	Collect the images of smart textiles. Prepare presentation for

			of smart textiles. Classification – Passive smart, Active smart, Ultra smart.	Classification of smart textiles.
13	**4**	**1,3,4,7**	**Nano technology and artificial intelligence**. Introduction to Modern application and uses of Nano technology in Fashion and Textile Industry. Modern application and uses of artificial intelligence in Fashion & Textile Industry.	Collect the images of Nanotechnology and artificial intelligence in Fashion & Textile Industry. Prepare presentation for Nanotechnology and artificial intelligence in Fashion & Textile Industry.

4. References:

1. Textile Finishing: Basic Concepts and Application Author: Gopalakrishnan, D, P Vinayagamurthi and S Kavitha.
2. Indian Painted & Printed Fabrics Author: John Irwin and Margaret Hall
3. Technical Textiles Author: Gopalakrishnan D and P

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 arks**

6. SEE - Theory Assessment Methodologies

Sl. No	SEE – Practice Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Practice	90	50	20

7. CIE Theory Test model question paper

Program	**ADFT**			**Semester -4**	
CourseName	TRADITIONAL AND TECHNICAL TEXTILES			**Test**	**I/III**
CourseCode	**25FT42I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answeranyonefullquestionfromeachsection.Eachfullquestioncarriesequal marks.					

Q.No	**Questions**	**Cognitive Level**	**Course Outcome**	**Marks**
	Section - 1			
1	a) Enlist traditional textiles of India. b) Explain pre historic region. c) Differentiate between ancient and traditional textiles. d)Describe the traditional textiles of Bengal	U R A A	1,2	5 5 5 10
2	a) Describe Indus valley Region. b) Illustrate any two motifs used for Jamadani. c) Summarize Indian textiles. d) Describe the traditional textiles of Uttar Pradesh.	U R A A	1,2	5 5 5 10
	Section - 2			
3	a) Origin, Techniques of Traditional Manufacturing, Cost of Kanchipuram. b) Compare Patola and Brocade. c) Illustrate any two motifs or designs used in Patola. d) Describe the traditional textiles of Madhya Pradesh.	U A A A	1,2	5 5 5 10
4	a) Write the Origin, Techniques of Traditional Manufacturing, and Cost of Pochampali. b) Describe traditional textile of Gujarat. c) Illustrate any two motifs or designs used in Kanchipuram. d) Describe the Brocades of Varanasi.	U A A A	1,2	5 5 5 10

Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in eachsectioncarrythesameweightageofmarks,cognitivelevelandcourseoutcomes.

Signature of the Course Coordinator **Signature of the HOD** **Signature of the IQAC Chairman**

8. CIE Practice Test model question paper

Program	**ADFT**			**Semester**	
CourseName	TRADITIONAL AND TECHNICAL TEXTILES			**Test**	**II/IV**
CourseCode	**25FT42I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					

Questions	**CO**	**Marks**
Prepare a swatch of Patola Saree Boarder/Pallu using painting technique.	**2**	**20**
Prepare a swatch of Warli Painting.	**3**	**20**
Finishing and Presentation.		**10**
		50
Scheme of assessment a) Patola painting b)Warli painting c) Finishing and presentation		**20** **20** **10**
	Total Marks	**50**

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic

Sl.No.	**Suggestive Activities for Tutorials**
01	Prepare saree pallu using Patola painting.
02	Prepare Kameez using Kalamkari.
03	Prepare any one article using Warli painting.
04	Prepare any one article using Madhubani painting.
05	Prepare Paithani saree boarder using painting technique.
06	Prepare any one article using any one technique.

10. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note:DimensionandDescriptorshallbedefinedbytherespectivecoursecoordinatoraspertheactivities

11. SEE–Model Theory Question Paper

Program	**ADFT**	**Semester**	
Course Name	TRADITIONAL AND TECHNICAL TEXTILES	**Marks**	**50**
Course Code	**25FT42I**	**Duration**	**90 Min**

Note: Answeranyonefullquestionfromeachsection.Eachfullquestioncarriesequalmarks.

Q No	Questions	Cognitive Levels	Course Outcomes	Marks
	Section -1			
1	a) Classify Traditional Printed Textiles of India. b) Describe Indus Valley region.	U R	1 1	5 5
2	a) Write a brief note on Jamdanis of Uttar Pradesh. b) Describe the traditional textiles of Tamilnadu.	U/A A	2 2	5 5
	Section -2			
3	a) Explain Chanderi of Madhya Pradesh. b) Write Origin, Definition, and Techniques of Traditional Manufacturing and Cost of Brocade.	A R	2 2	5 5
4	a) Describe traditional textiles of Karnataka. b) Illustrate any two motifs or designs used in Kanchipuram.	A A	2 2	5 5
	Section -3			
5	a) Explain Mysore painting. b) Illustrate and explain Warli painting.	A A	3 3	5 5

6	a) Describe Kalamkari. b) Explain Tanjavore painting.	A A	3 3	5 5
Section -4				
7	a) Classify technical textiles. b) Describe Agro tech.	U A	4 4	5 5
8	a) Explain the importance of Indu tech. b) Describe Packtech.	A A	4 4	5 5
Section -5				
9	a) Write the importance of smart textiles. b) Describe classification of smart textiles.	U/A A	4 4	5 5
10	a) Write the application and uses of Nanotechnology in Fashion and Textile Industry b) Write the uses of artificial intelligence in Fashion & Textile Industry.	U/R A	4 4	5 5

12.Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	Fabric Paints	-	30
02	Flat Brushes (Brush Nos. 0,1,6)	-	30
03	Round brushes (Brush Nos. 0,1,6)	-	30
04	Embroidery frames (Medium size)		30

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**Apparel Design and Fabrication Technology**	**Semester**	**4**
Course Name	**DYEING AND PRINTING**	**Type of Course**	Integrated
Course Code	**25FT43I**	**Contact Hours**	7Hrs/week 91 Hrs/Sem
Teaching Scheme	L: T:P 3:0:4	**Credits**	5
CIE Marks	**50**	**SEE Marks**	**50 (Practice)**

1. Rationale:

The course on dyeing and printing helps in understanding the textile designing methods and provide sufficient knowledge and skills about principles of pretreatment and dyeing operation. Dyeing and printing process of textiles is an essential part of the textile industry. This course aims at providing the knowledge and skills of preparatory processes followed by dyeing and printing of textiles.

2. **Course Outcomes:** At the end of the Course, the student will be able to:

CO-01	Acquire the knowledge of fabric finishing processes.
CO-02	Application of Dyes for different fabrics
CO-03	Ability to develop various Painting and Printing technique.
CO-04	Identify various types of stains and method of laundering.

3. Course Content

WEEK	CO	PO	Theory	Practice
1	**1**	**1,3,7**	**Fabric Finishing processes** – Introduction, Importance and Uses **Classification of Finishes**- Preparatory, Stabilizing and Textural finishes. **Different Fabric finishing process:** **Mechanical Process:** Calendaring, Tentering, Singing, Gauzing, Napping, Embossing.	Conducting the following finishing process in the lab, Scouring, Desizing of cotton. Bleaching of Cotton yarns. (Aim, apparatus required, Procedure, conclusion)
2	**1**	**1,3,7**	**Chemical Process:** Mercerization, Bleaching, Dyeing,	Conducting the following finishing process in the

			Preshrinking, Degumming **Aesthetic finishes**- water proof, water repellent, soil resistance, fire proof and wash and wear.	lab Bleaching and degumming of Silk. (Aim, apparatus required, Procedure, conclusion)
3	**2**	**1,3,7**	**Dyeing:** Introduction, Selection of dyes. Types of dyeing methods Stock dyeing, yarn dyeing, piece dyeing, solvent dyeing, garment dyeing. **Classification of Dyes** – Natural dyes. Types of natural dyes.	Prepare report on various dyes used for cotton. Prepare a swatches of fabric/ yarn using Natural Dyes (any two)
4	**2**	**1,3,7**	**Synthetic dyes**- Acid, Basic, Reactive, Direct, Vat Sulphur dyes. Reactive Dyes- Types of reactive dyes and uses. Direct dyes	Prepare a Shade card using Reactive Dyes Prepare a Shade card using Direct Dyes
5	**2**	**1,3,7**	**Tie and dye** : Introduction. Pre Dyeing Process & Preparation of Dyes. Different methods of tie &dye. Folding, Crushing, Knotting, Shibori & Sewing.	Prepare fabric swatches for different Tie and Dye methods using single and multi colours. Prepare a duppatta /Scarf using any method.
6	**2**	**1,3,7**	**Batik**: Introduction, design selection. Equipments required, preparation wax Method of applying. Preparation of dyes based on fabric used.	Prepare swatches of batik. Prepare a Batik Wall piece/ Table Mat /Sling bag with multi colors.
7	**3**	**1,3,7**	**Printing:** Introduction to printing Styles of printing: Direct, discharge, resist printing. Methods of printing: Block printing, Stencil printing, Screen printing	Collection of fabrics with different printing methods and Prepare a report. Prepare a pair of Cushion cover using any printing techniques.
8	**3**	**1,3,7**	**Stencil printing:** Introduction to Stencil printing. Selection of dyes, materials used and techniques used for Stencil printing. Preparation of stencils for different motifs.	Prepare swatches for boarder, corner, and center and all over design using stencil printing. Prepare a Table mat/cloth using multi colour Stencil printing.

9	**3**	**1,3,7**	**Block Printing:** Introduction to block printing and Equipment's required, Selection of Design and Blocks. Preparation of Pigment Dyes and procedure for block printing.	Prepare swatches for boarder, center and all over design using single and multi colour blocks. Prepare a Sling Bag / Mobile Pouch using block printing.
10	**3**	**4,7**	**Screen Printing:** Introduction to flat and Rotary Screen Printing. Procedure for preparation of screens and uses. Procedure for application of screen print on fabrics using single and multi colour frames.	Prepare swatches of Screen printing Any motifs. Presentation on preparation of screen.
11	**3**	**4, 7**	Roller printing: Procedure and uses. Transfer printing: Procedure and uses. Digital printing: Procedure and uses.	Visit any nearby printing center Prepare a presentation on visit. Prepare a screen print design on T shirt/ Kurtha/ Blouse
12	**4**	**1,3,7**	**Stain:** Definition and Classification of stains Stain removal Agents. Stain removal methods – Protein stain, oil stain and dye stain	Removal of Stains from swatches of following stains: Protein stains: Blood, Ice cream, Mud, Egg Tannin stain: Coffee, Tea, Fruit juices Oil based stains: Grease Oil Dye stain: Grass, Paint, Ink
13	**4**	1,3,4,7	**Care and Maintenance of fabrics** Principles of laundering. Laundry Equipments-Indoor and Outdoor. Types of Washing. Hand, Machine, Dry cleaning. Wash Labels, Pressing Methods.	Collect the images of Laundry Equipments-Indoor and Outdoor. Prepare presentation for types of Washing.

4. References:

1. Fiber to fabric by Corbman, Bernard P
2. Textile Design - Carol Joyce - Google Books
3. Printed Textile Design by Amanda Briggs-Goode
4 Printmaking Handbook by Louise Woods
5. Batik and tie dye techniques by Nancy Belfer
6. Batik design by Pepin Roojen
7. Text Book of Fabric Science Fundamentals to Finishing – Seema Sekhri

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 arks**

6.SEE – Practice Assessment Methodologies

Sl. No	SEE – Practice Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Practice	180	50	20

7. CIE Theory Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester**	**4**
Course Name	**DYEING AND PRINTING**			**Test**	**I/III**
Course Code	**25FT43I**	**Duration**	**90 min**	**Marks**	**50**
Name of the Course Coordinator:					
Note: Answer any one full question from each section. Each full question carries equal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) List out fabric finishes. b) Describe Calendaring. c) Write the importance of Tentering. d) Distinguish water proof and water repellent finishes.	U/R A A A	1 1 1 1	5 5 5 10
2	a) List out five aesthetic finishes. b) Describe Gauzing. c) Explain Napping.	U/R A A A	1 1 1 1	5 5 5 10

	d) Differentiate bleaching and degumming.			
Section - 2				
3	a) Define stain. List types of stains. b) Explain any two indoor and outdoor laundery equipments. c) Differentiate between Hand wash and Machine wash. d) Discuss the care and maintenance of fabrics.	U/R A A A	2 2 2 2	5 5 5 10
4	a) List stains removal methods. b) Describe any two stain remover agents. c) Summarize block printing process. d) Distinguish between Dyeing and Printing.	U/R A A A	2 2	5 5 5 10
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in eachsectioncarrythesameweightageofmarks,cognitivelevelandcourseoutcomes.				

Signature of the Course Coordinator Signature of the HOD Signature of the IQAC Chairman

8. CIE Practice Test model question paper

Program	**Apparel Design and Fabrication Technology**			**Semester**	**4**
Course Name	**DYEING AND PRINTING**			**Test**	**II/IV**
Course Code	**25FT43I**	**Duration**	**180 min**	**Marks**	**50**
Name of the Course Coordinator:					
Questions				**CO**	**Marks**
1. Develop a design using Tie and Dye/Batik/Block Printing technique. 2. Prepare a shade card using Reactive dye/ direct dye/Natural dye 3. Finishing and Presentation					**20** **20** **10**
Scheme of assessment a) Printing b) Dyeing c) Finishing and Presentation					**20** **20** **10**
				Total Marks	**50**

Signature of the Course Coordinator Signature of the HOD

8. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose activities that are relevant to the topic

Sl.No.	Suggestive Activities for Tutorials
01	Collect the pictures of Traditional Indian paintings.
02	Prepare a wall hanging using Mahbubani painting technique.
03	Prepare Tie and dye Scarf.
04	Prepare Table cloth using Batik
05	Prepare any article with print and paint technique
06	Prepare a stencil printing Hand bag/ Pouch.

9. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: DimensionandDescriptorshallbedefinedbytherespectivecoursecoordinatoraspertheactivities

10. SEE- Model Practice Question Paper

Program	**ADFT**		**Semester**	
Course Name	**DYEING AND PRINTING**	**Course Code 25FT43I**	**Duration**	**180 min**
Questions			**CO**	**Marks**
1. Prepare swatch of tie and dye using any two methods of tieing using appropriate dye. **2. Prepare a swatch using batik/block/ stencil/ Stencil printing method.** **3. Finishing and Presentation.**				**20** **20** **10**
Scheme of assessment **a) Tie and Dye** **b) Batik** **c) Finishing and Presentation**				**20** **20** **10**
			Total Marks	**50**

Signature of the Examiner **2) Signature of the Examiner**

11. Equipment/software list with Specification for a batch of 30 students

Sl.No.	Particulars	Specification	Quantity
01	**Wooden Blocks of different designs**	Wooden	30
02	**Block printing Table**	Wooden	15
03	**Screens of different designs**	Screens	15
04	**Handy Gas**	Stove	04
05	**Utensils**	Aluminum/ Steel	10

Government of Karnataka
DEPARTMENT OF TECHNICAL EDUCATION

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**	**Semester**	**IV**
Course Name	**COMPUTER AIDED DESIGN**	**Type of Course**	Integrated
Course Code	**25FT44I**	**Contact Hours**	7Hrs/week 91 Hrs/Sem
Teaching Scheme	L: T:P 3:0:4	**Credits**	5
CIE Marks	**50**	**SEE Marks**	**50 (Practice)**

1. Rationale:

CAD in fashion and textile design, helps to learn innovative tools and techniques that streamline the creativity of students in the areas of textile and fashion designing. This allows the designers to work with different fabric patterns and textures. Learning of fashion design software is to simplify communicating design ideas for accurate samples, illustrations and production

2. **Course Outcomes:** At the end of the Course, the student will be able to:

CO-01	Create intricate sketches and illustrations with digital precision.
CO-02	Develop motifs, repeats, and layouts, achieving precision and consistency.
CO-03	Achieve proficiency in developing fashion themes using layering, color palettes, and brush tools.
CO-04	Create virtual fashion sketching on digital mannequins and application of AI

3. Course Content

WEEK	CO	PO	Theory	Practice
1	1	3,4	**Computer Aided Design** Introduction to Computer Aided Design Application of computers in design development Benefits of CAD in fashion industry	Practicing basic tools of Corel draw Practicing basic shapes and designs Develop any two-logo designs

2	1	3,4	**Graphic software** Introduction to Graphic software Characteristics of graphic software Application of Graphic software	Make a report on graphic design software Create a Brand Label designs using CorelDRAW
3	1	3,4	Graphic software used in fashion designing: CorelDRAW, PHOTOSHOP and ADOBE ILLUSTATOR Features and application of CorelDRAW, PHOTOSHOP, ADOBE ILLUSTATOR	Design a Visiting card and letter head Create checks, stripes and doodle designs
4	2	3,4	**CorelDRAW** Introduction to CorelDraw Application and uses of CorelDRAW in fashion design Understanding the tools used, drawing shapes. Working with color and filling objects, handling objects shaping layers	Developing geometrical motifs, stylized motifs Natural motifs and abstract motifs
5	2	3,4	Trimming, Welding, Cropping, Intersecting, Aligning. Cloning, Positioning, Scaling, Rotating, Combining, Grouping, locking, Replacing. Special Effects using lenses, adding 3D effect, Blending	Create symmetrical and asymmetrical designs Create a design suitable for neckline embroidery
6	1	1,4	Texts and formation, pages and layouts, file formats Import and export of images: resize image. Drawing, Shaping, aligning, editing and grouping and ungrouping images.	Create a design of hand bag and earrings Create a design of foot wear and head gear
7	2	1,4	**ADOBE PHOTOSHOP** Introduction to Photoshop and its features. Application and uses of Photoshop in fashion design Tools: Marquee tools-Rectagular,	Practicing tools of Adobe photoshop Create repeats using above motifs block repeat, brick repeat

			Elliptical, Single row, single column marquee tool	
8	2	1,4	Move tool, Magic wand tool, quick selection tool Masking, transforms, working with layers. Merging & blending layers, text effects. Gradients used for rendering 3D effects. Differentiate between CorelDRAW and Photoshop	Half drop repeat and 3/4th repeat Cross repeat and diamond repeat
9	3	1,3,4	**Collage** Introduction to collage making Application of collage in fashion designing Difference between manual collage and digital collage	Select a theme and make a photo collage of theme board Create a photo collage of mood board.
10	3	1,3,4	Meaning and concept of Inspiration board Meaning and concept of mood board and theme board Meaning and concept of colour board	Create a photo collage of colour board Create a photo collage of design board
11	4	1,3,4	**ADOBE ILLUSTRATOR** Introduction to Adobe Illustrator Uses of Adobe illustrator in fashion design Benefits of Adobe illustrator in fashion draping and rendering	Draping garments and rendering with colour and textures Casual Wear for kids Formal Wear for male and female
12	4	1,3,4	Key Tools in Adobe Illustrator for Fashion Design Pen Tool , colour tool ,Shape Builder Tool Pattern Tool, Artboards, Line Segment Tool, Brush Tool Gradient Tool and Symbols and Libraries	Draping garments and rendering with colour and textures Pary wear for male and female Casual wear for male and female
13	4	4,6	3D fashion design software Advantages of 3D fashion design	Create a cover page of CAD record/portfolio using above

			software Benefits of AI in fashion designing CAD	software Prepare a report on 3D fashion and AI in fashion

4. References:

1.W Aldrich, CAD in Clothing and Textiles, Blackwell Science Ltd.
2. Donald Hearn and M. Pauline Baker 'Computer Graphics, Prentice hall of India, New Delhi
3. Steve Baine, Using Coreldraw, Prentice Hall of India, New Delhi
4. Adobe Photoshop CS6, Class room in a book, Dorling Kingslay Pub, 2013,
5. CAD for Fashion Design. By Rene Weiss Chase., Prentice Hall, upper saddle River, London.

https://youtu.be/yWvmS69SjLA
https://youtu.be/WaQV8IU4iR0
https://youtu.be/vTE5W9G-DSY

5. CIE Assessment Methodologies

Sl. No	CIE Assessment	Test Week	Duration (minutes)	Max marks	
1.	CIE-1TheoryTest	4	90	50	Average of all CIE=50 Marks
2.	CIE-2Practice Test	7	180	50	
3	CIE-3TheoryTest	10	90	50	
4.	CIE-4Practice Test	13	180	50	
5	CIE-5 Portfolio evaluation of all the activities through Rubrics	1-13		50	
				Total	**50 arks**

6. SEE – Practice Assessment Methodologies

Sl. No	SEE – Practice Assessment	Duration (minutes)	Max marks	Min marks to pass
1.	Semester End Examination-Practice	180	50	20

7. CIE Theory Test model question paper

Program	APPAREL DESIGN AND FABRICATION TECHNOLOGY			Semester -IV	
Course Name	COMPUTER AIDED DESIGN			Test	I/III
Course Code	25FT44I	Duration	90 min	Marks	50
Name of the Course Coordinator:					
Note: Answeranyonefullquestionfromeachsection.Eachfullquestioncarriesequal marks.					

Q.No	Questions	Cognitive Level	Course Outcome	Marks
	Section - 1			
1	a) Define computer Aided Design b) Benefits of CAD in fashion industry c) explain features and application of CorelDRAW d) List any ten tools used in CorelDRAW	R A U R	1,2	5 5 5 10
2	a) Define Graphic software b) Explain Characteristics of graphic software c) Elaborate the Application of Graphic software d) List any ten tools used in adobe illustrator	R A U R	1,2	5 5 5 10
	Section - 2			
3	a) Explain the benefits of Photoshop and its features. b) write concept of Inspiration board c)List Uses of Adobe illustrator d) Difference between manual collage and digital collage	U A R AN	3,4	5 5 5 10
4	a) Describe collage making b) write concept of colour board c) describe 3D fashion design software d)compare CorelDRAW with photoshop	U A R AN	3,4	5 5 5 10

Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weightage of marks, cognitive level and course outcomes.

Signature of the Course Coordinator **Signature of the HOD** **Signature of the IQAC Chairman**

8. CIE Practice Test model question paper

Program	APPAREL DESIGN AND FABRICATION TECHNOLOGY			Semester	IV
Course Name	COMPUTER AIDED DESIGN			Test	II/IV
Course Code	25FT44I	Duration	180 min	Marks	50
Name of the Course Coordinator:					

Questions	CO	Marks
1. Create a stylized motif and show block repeat using CorelDRAW/photoshop/adobe illustrator	2 3	20 15
2. Prepare a mood board of photo collage of given theme using CorelDRAW/photoshop/adobe illustrator	4	15
3. Drape a partywear gown with accessories using CorelDRAW/photoshop/adobe illustrator		
Scheme of assessment a) Motif creation 10 marks repeats 10 marks b) Mood board creation 10 collage application 5 marks c) Drape a partywear gown 10 marks accessories 5 marks		20 15 15
	Total Marks	50

Signature of the Course Coordinator **Signature of the HOD**

9. Suggestive Activities for Tutorials:

The List is an Example and not inclusive of all possible activities of the course. Student and Faculty are encouraged to choose **any two** activities that are relevant to the topic

Sl.No.	Suggestive Activities for Tutorials
01	Creating the different types of geometrical and logo designs using Auto CAD software
02	Prepare a presentation on the tools and its functions of Corel Draw software.
03	Prepare a presentation on the tools and its functions of Abode Photoshop software.
04	Create a motif in Corel draw, show repeat on Photoshop and represent the design on ladies' dress on adobe illustrator
05	Create a motif in Corel draw, show repeat on Photoshop and represent the design on men's traditional wear on adobe illustrator

9. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	StudentsScore
		2	4	6	8	10	
1		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	8
2		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	6
3		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
4		Descriptor	Descriptor	Descriptor	Descriptor	Descriptor	2
	Average Marks=(8+6+2+2)/4=4.5						**5**

Note: Dimension and Descriptor shall be defined by the respective course coordinator as per the activities

10. **SEE- Model Practice Question Paper**

Program	**APPAREL DESIGN AND FABRICATION TECHNOLOGY**		**Semester**	
Course Name	**COMPUTER AIDED DESIGN**	**Course Code25FT44I**	**Duration**	**180 min**
Questions			**CO**	**Marks**
1. Create a geometric motif and show 3/4th repeat using CorelDRAW/photoshop/adobe illustrator				**20**
2. Prepare a colour board of photo collage of given theme using CorelDRAW/photoshop/adobe illustrator				**15**
3. Drape a formal wear for man with suitable accessories using CorelDRAW/photoshop/adobe illustrator				**15**
Scheme of assessment **a)** Motif creation 10 marks repeats 10 marks b) colour board creation 10 collage application 5 marks c) Drape a formal wear 10 marks accessories 5 marks				**20** **15** **15**
			Total Marks	**50**

1. Signature of the Examiner **2) Signature of the Examiner**

11. Equipment/software list with Specification for a batch of 30students

Sl.No.	Particulars	Specification	Quantity
01	Computers		30
02	Softwares – Corel Draw, Adobe Photoshop & Adobe Illustrator		30
03	Printers		5