

**SCHEME OF STUDY & EXAMINATION AND
COURSE WISE DETAILS & CONTENTS**

**DIPLOMA IN APPAREL DESIGN AND FABRICATION
TECHNOLOGY**

(C-21)

FOURTH SEMESTER

W.E.F 2023-24

Curriculum Structure**IV Semester Scheme of Studies- Diploma in Apparel Design and Fabrication Technology**

Sl. No.	Course Category / Teaching Department	Course Code	Course Name	Hours per week			Total contact hrs /week	Credits	CIE Marks		SEE Marks		Total Marks	Min Marks for Passing (including CIE marks)	Assigned Grade	Grade Point	SGPA and CGPA
				L	T	P			Max	Min	Max	Min					
INTEGRATED COURSES																	
1	PC/FT	7441	Pattern Illustration - IV	3	1	4	8	6	60	24	40	16	100	40			Both SGPA & CGPA
2	PC/FT	7442	Surface Embellishment - II	3	1	4	8	6	60	24	40	16	100	40			
3	PC/FT	7443	Dyeing and Printing	3	1	4	8	6	60	24	40	16	100	40			
4	PC/FT	7444	Pattern and Designing CAD	3	1	4	8	6	60	24	40	16	100	40			
AUDIT COURSES																	
5	AU/FT	20FT45T	Indian Constitution	2	0	0	2	2	50	20	-	-	50	20			
Total				14	4	16	34	26	290	116	160	64	450	180			

*PC: Programme Core:: AU-Audit Course:: L: Lecture:: T: Tutorial:: P: Practice

PROGRAMME COORDINATOR**PRINCIPAL**

GOVERNMENT OF KARNATAKA
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)

Programme	Apparel Design & Fabrication Technology	Semester	IV
Course Code	7441	Type of Course	Programme Core
Course Name	PATTERN ILLUSTRATION – IV	Contact Hours	8 hours/week 128 hours/semester
Teaching Scheme	L:T:P :: 3:1:4	Credits	6
CIE Marks	60	SEE Marks	40

1. Rationale - To prepare a well-finished garment, stitching is done by assembling different garment components. Garment construction is a technical accomplishment that requires the knowledge and skills of basic sewing techniques— application of stitches, seams, darts, pleats and edge finishing, etc. It's appropriate application in garment construction is necessary for a good quality product.

2. Course Outcomes/Skill Sets

CO-01	Able to draft components required for specific garment using direct measurements.
CO-02	Able to create different types of cuffs, yokes, Pockets, Plackets used in Boys Garments.
CO-03	Understand various garment construction processes like seams, neckline finishes, Placket openings, fasteners.
CO-04	Calculation of fabric requirements for various Garments.
CO-05	Identify the defects and remedies in Boys Garments.

3. Course Content

Week	CO	PO	Lecture (Knowledge Criteria)	Tutorial (Activity Criteria)	Practice (Performance Criteria)
			3 hours/week	1 hour/week	4 hours/week (2 hours/batch twice in a week)
1	1,2,3	1,7	1. Introduction to Tie Collar Half Arm Shirt - Front, Back, Sleeves, Yoke, Collar, Patch Pocket. Technical Terms: Fused Canvas, Buckram, Scye depth, Notches, Grain line, Construction line, Inlay, Selvedge.	Refer Table-1	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Taking direct measurement. 2. Fabrication of the Garment
			2. Sketch and design the garment on 6½ heads croque. Measurements required and method of measuring the same. Components, Suitable Fabric and Trimmings.		
			3. Garment Drafting & Construction – Front, Back, Yoke		

2	4,5	2,3,7	1. Garment Drafting & Construction – Sleeves, Tie Collar, Patch Pocket	Refer Table-1	1. Fabrication of the Garment 2. Finishing, Pressing and labeling. Rectifying defects.
			2. Layout and Estimation – direct layout Costing of the garment.		
			3. Defects and remedies in Shirt		
3	1,3	1,3,7	1. Introduction to Pyjama with Fly and side Pocket. Technical Terms: Body Rise, Seat Angle line, Back Height, Fork Line, Fly, Fly Catch, Fork Point.	Refer Table-1	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. Taking direct measurement. 2. Fabrication of the Garment.
			2. Sketch and design the garment on 6½ heads croque. Measurements required and method of measuring the same. Components, Suitable Fabrics and Trimmings.		
			3. Garment Drafting & Construction – Front, Back		
4	1,3	1,3,7	1. Garment Drafting & Construction –Fly, Fly Catch, Pocket, Tag.	Refer Table-1	1. Fabrication of the Garment. 2. Finishing, Pressing and labeling. Solving fitting problems.
			2. Layout and Estimation – Double Pick lay.		
			3. Costing of the Garment.		
5	4,5	2,3,7	1. Introduction to Bermuda with Side and Patch Pocket. Technical Terms – Inside leg length, Crotch length, crotch depth, Velcro	Refer Table-1	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
			2. Sketch and design the garment on 6½ heads croque. Measurements required and method of measuring the same. Components, Suitable Fabrics and Trimmings.		
			3. Garment Drafting & Construction – Front, Back		
6	1,2,3	1,3,7	1. Garment Drafting & Construction – Side Pocket, Patch pocket	Refer Table-1	1. Fabrication of the Garment. 2. Finishing, Pressing and labeling. Solving fitting problems.
			2. Layout and Estimation – Double Pick lay.		
			3. Costing of the Garment.		

7	1,2,3	1,3,7	1. Introduction to Simple Kurtha with side pocket, round Neck Technical terms – Placket, Neck height, Scye depth	Refer Table-1	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
			2. Sketch and design the garment on 6½ heads croque Measurements required and method of measuring the same. Components, Suitable Fabric and Trimmings.		
			3. Garment Drafting & Construction-Front, Back		
8	4,5	2,3,7	1. Garment Drafting & Construction-Sleeves, Placket, Side Pocket, Neck finishing.	Refer Table-1	1. Fabrication of the Garment. 2. Finishing, Pressing and labelling. Solving fitting problems.
			2. Layout and estimation – direct method		
			3. Costing of the garment.		
9	1,2,3	1,3,7	1. Introduction to yokes used in Boys Garment– Uses and types – Pointed, Round, Scallop, Square, Asymmetric	Refer Table-1	1. Preparing samples of any two types of Yokes, Cuffs and Collar. 2. Pressing and finishing Yokes, Cuffs and Collar.
			2. Introduction to Cuffs – Uses & Types - Square edge cuff, Round edge cuff, French cuff, Turn Back cuff,		
			3. Introduction to Collars, Classification, Parts of the collar. Types of collar – Tie Collar, Stand collar, Shakespeare Collar, Shawl Collar, Cut away collar.		
10	1,2,3	1,3,7,	1. Introduction to Pleated Shorts – Front, Back, Fly, Fly catch, Pocket, Waist belt	Refer Table-1	1. Pattern Drafting on Melton cloth. Preparing paper patterns of the garment. 2. Fabrication of the Garment.
			2. Sketch and design the garment on 6½ heads croque Measurements required and method of measuring the same. Components, Suitable Fabric and Trimmings.		
			3. Garment Drafting & Construction-Front, Back		

11	4,5	2,3,7	<p>1. Garment Drafting & Construction- Waist Belt, Pocket, Fly, Fly Catch</p> <p>2. Layout and Estimation of the Garment- Double Pick Lay.</p> <p>3. Costing of the garment. Defects and Remedies in shorts.</p>	Refer Table-1	<p>1. Fabrication of the Garment.</p> <p>2. Finishing, Pressing and labelling. Solving fitting problems.</p>
12	1,2,3	1,3,7	<p>1. Pocket making and its application of outside Pockets: Patch Pocket – Unlined Patch Pocket, Curved Patch Pocket, Lined Patch Pocket, Patch Pocket with Flap, Patch pocket with Pleats.</p> <p>2. Pocket making and its application of inside Pockets: Inseam Pocket – Hip Pocket, Slashed Pocket</p> <p>3. Welt Pocket, Welt Pocket with Flap, Bound Pocket.</p>	Refer Table-1	<p>1. Preparing Samples of any Two Inside and Outside Pockets</p> <p>2. Finishing and Pressing the Pockets.</p>
13	4,5	1,2,3,7	<p>1. Introduction to Plackets – Importance and uses. Types of Plackets – Self, Two-piece sleeve placket, Continuous bound Placket, Shirt Placket.</p> <p>2. Zipper attachments- Centered, Lapped and invisible zipper attachment.</p> <p>3. Rendering of different types of fabric suitable for Boys Garment – Plain, Checks, Dotted, Printed, Stripped, Textured.</p>	Refer Table-1	<p>1. Preparing Samples of any Two Plackets and Zipper attachments.</p> <p>2. Collect Swatches of the fabric suitable for Boys and Men’s Garment.</p>
Total in hours			48	16	64

***PO= Program Outcome as listed and defined in year 1 curriculum and PO – CO mapping with strength (Low/Medium/High) has to be mapped by the course Co-Ordinator. (Above only suggestive)**

TABLE 1: Suggestive Activities for Tutorials: (The List is only shared as 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 and on the availability of such resources at their institution).

Sl. No.	Suggestive Activities for Tutorials
1.	Preparing Lay Pattern of a Shirt.
2.	Stitching Night Pyjama of Students Choice.
3.	Sketching any two different Trendy Bermudas using 6 ½ croque.
4.	Stitching Tunics of Students choice.
5.	Sketching and collecting pictures of different types of Yokes, Cuffs and Collars.
6.	Creating different designs of fabrics suitable for Uniform Shirt
7.	Collecting pictures of kids Garments which are in trend.
8.	Sketching and creating different textural effect.
9.	Prepare miniature of any two garments.
10.	Prepare lay pattern of any Garment mentioned in the syllabus.
11.	Collect different types of decorative trimmings used for Boys garments.
12.	Collecting trendy and fun garments for Boys.
13.	Prepare a fancy yoke suitable for a shirt.
14.	Best out of waste – Create a Garment using waste materials.
15.	Create any two Fancy patch pockets.

Note: i) Minimum 5 activities apart from collecting pictures.

ii) Folders should contain activities of all the units and submit the same at the endexam.

4.CIE and SEE Assessment Methodologies

Sl. No	Assessment	Test Week	Duration In minutes	Max marks	Conversion
1.	CIE-1 Written Test	5	80	30	Average of three tests 30
2.	CIE-2 Written Test	9	80	30	
3	CIE-3 Written Test	13	80	30	
4.	CIE-4 Skill Test-Practice	6	180	100	Average of two skill tests reduced 20
5	CIE-5 Skill Test-Practice	12	180	100	
6	CIE-6 Portfolio continuous evaluation of Activity through Rubrics	1-13		10	10
Total CIE Marks					60
Semester End Examination (Practice)			180	100	40
Total Marks					100

5.Format for CIE written Test

Course Name	PATTERN ILLUSTRATION – IV	Test	I/II/III	Sem	IV
Course Code	7441	Duration	80 Min	Marks	30
Note: Answer any one full question from each section. Each full question carries 10 marks.					
Section	Assessment Questions	Cognitive Levels	Course Outcome	Marks	
I	1				
	2				
II	3				
	4				
III	5				
	6				
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weight age of marks, Cognitive level and course outcomes.					

6.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

7.Reference:

Sl. No.	Description
1	Pattern Cutting and Making up, The Professional Approach – Martin M Shoben & Janet P Ward
2	Asian Cutting and Sewing Theory- Gayathri Verma & Kapil Dev
3	Techniques of Drafting and Pattern Making: Garments for Kids and Adolescents – PadmavathiB
4	Metric Pattern Cutting Third Edition – Winifred Aldrich
5	Professional Sewing Techniques for Designers – Julie Cole & Sharon Czachor
6	Fashion Pattern Making Techniques for Children’s Clothing – Antonio Donnanno.
7	Making Children’s Clothes: 25 Stylish step – by -Step Sewing Projects for 0-5 years, including full size paper Patterns – Emma Hardy
8	Pattern Making for Kids’ Clothes – Carla Hegeman Crim
9	Metric Pattern Cutting for Children’s Wear and Babywear – Winifred Aldrich
10	Illustrated Guide to Sewing : Garment Construction – Colleen Dorsey

8.CIE Skill Test and SEE Scheme of Evaluation

SL. No.	Particulars/Dimension	Marks
1	Drafting and Preparation of Paper Pattern	10
2	Laying Pattern & Fabric cutting	15
3	Fabrication of the Garment	45
4	Finishing & Pressing	10
5	Viva-Voce	20
Total Marks		100

9.Equipment/software list with Specification for a batch of 20 students

Sl. No.	Particulars	Specification	Quantity
1.	Power operated sewing machine	Single Needle	20
2.	Double Needle Lock Stitch Machine	Double Needle	
3.	Power operated over lock machine	3 thread over lock	04
4.	L square	Plastic	24
5.	Button Fixing machine		01
6.	Button hole machine		01
7.	Steam iron with table	Industrial	04
8.	Mannequins	Fiber	06
9.	Kid Mannequins	Girl & Boy	One each
10.	Dress Forms (Male & Female)		2 each

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JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED(AUTONOMOUS)**

Programme	Apparel Design & Fabrication Technology	Semester	IV
Course Code	7442	Type of Course	Programme Core
Course Name	SURFACE EMBELLISHMENT-II	Contact Hours	8 hours/week 128 hours/semester
Teaching Scheme	L:T:P :: 3:1:4	Credits	6
CIE Marks	60	SEE Marks	40

1. Rationale - Embroidery is an innovative Craft by using different layers of thread, colours and adding Beauty by changing the Needle movement either by Hand or Machine Embroidery. Apparel Designing includes not only the Garment construction but also providing value Addition to the Garment. Today all types of Garments are constructed either with Hand or Machine Embroidery effects. This subject deals with hand embroidery which are in trend and different types machine embroidery.

2. Course Outcomes/Skill Sets

CO-01	Ability to Create Beautiful embroidery effects.
CO-02	Acquire the knowledge of various Machine embroidery stitches.
CO-03	Apply various Machine Embroidery works to construct articles.
CO-04	Able to start an enterprise.
CO-05	Handle any type of embroidery Machines.

3. Course Content

Week	CO	PO	Lecture (Knowledge Criteria)	Tutorial (Activity Criteria)	Practice (Performance Criteria)
			3 hours/week	1 hour/week	4 hours/week (2 hours/batch twice in a week)
1	1	1,3	1. Aari Work -Introduction- Materials used. 2. Frames, material used, Selection of Design 3. Working method.	Refer Table-1	1. Practicing Needle Movement of Aari Embroidery. 2. Practicing Needle Movement of Aari Embroidery
2	1	1,3	1. Tribal embroidery –Banjara/Warli Introduction - Material and colours suitable 2. Stitches and accessories used 3. Working method.	Refer Table-1	1. Preparing swatches of Warli embroidery. 2. Preparing swatches of Banjara embroidery

3	1	1,3	<p>1. Embroidery on Tapestry canvas— introduction -Suitable Material, Needle, Thread and colour, Working method</p> <p>2. Stitches -Cross, Herring Bone</p> <p>3. Satin , long and Short</p>	Refer Table-1	<p>1. Prepare a set of coasters (to place Tea cups) on Tapestry material.</p> <p>2. Prepare a set of coaster (to place Tea cups) on Tapestry material.</p>
4	5	1,2,4	<p>1. Introduction to Machine Embroidery.</p> <p>2. Preparation of Sewing machine for Machine Embroidery.</p> <p>3. Care and Maintenance of Sewing Machine.</p>	Refer Table-1	<p>1. Preparation of Sewing machine for Machine Embroidery.</p> <p>2. Prepare a Hand Kerchief using Domestic sewing Machine.</p>
5	5	1,2,4	<p>1. Computerized Embroidery Machines - Functions and uses</p> <p>2. Functions and uses -4 head and 8head</p> <p>3. Knowledge of Machine needles and thread. Care and Maintenance.</p>	Refer Table-1	<p>1. Picture collections of Computerized Embroidery Machine.</p> <p>2. Picture collections of Needles and threads.</p>
6	1,2	1,3,4	<p>1. Machine embroidery Stitches - Running Stitch- Design selection, fabrics and Working method.</p> <p>2. Round Running stitch</p> <p>3 Zig – Zag Running stitch</p>	Refer Table-1	<p>1. Preparing the Swatches of Running stitch using motifs. Size-20/20 sq cms</p> <p>2. Preparing the Swatches of Round running / Zig Zag Running stitch using motifs. Size-20/20 sq cms</p>
7	1,2	1,3,4	<p>1. Cording Stitch - Design selection, fabric and Working method.</p> <p>2. Stem stitch</p> <p>3. Blanket stitch</p>	Refer Table-1	<p>1. Preparing the Swatches of Cording stitch using motifs. Size-20/20 sq cms</p> <p>2. Preparing the Swatches of Stem stitch / Blanket stitch using motifs. Size-20/20 sq cms</p>

8	1,2	1,3,4	<p>1. Satin Stitch - Design selection, fabrics and Working method.</p> <p>2. Satin stitch variations – Padded and Slant Satin</p> <p>3. Long and short</p>	Refer Table-1	<p>1. Preparing the Swatches of Satin stitch using motifs. Size-20/20 sq cms.</p> <p>2 Preparing the Swatches of Long and short stitch using motifs. Size-20/20 sq cms</p>
9	1,3	3,4,5	<p>1. Applique work- Selection of design, Materials, working method.</p> <p>2. Net Applique</p> <p>3. Felt Applique</p>	Refer Table-1	<p>1. Preparing the Swatches of Applique work with motifs.</p> <p>2. Preparing the Swatches of Applique work with motifs.</p>
10	1,3	3,4,5	<p>1. Cut work -Selection of design, fabric and stitches.</p> <p>2. Cut Wok- working method</p> <p>3. Cut work with Bars- working method.</p>	Refer Table-1	<p>1 Preparing the Swatches of Cut work with motifs.</p> <p>2 Preparing the Swatches of cut work with bars</p>
11	1,3	3,4,5	<p>1. Mirror Work- Selection of Mirrors and Working Method.</p> <p>2. Sequence Work - working Method.</p> <p>3 Bead Work- working Method</p>	Refer Table-1	<p>1. Preparing the swatches of Mirror work with motifs.</p> <p>2 Preparing the Swatches of Sequence and Bead Work with motifs.</p>
12	2	1,4	<p>1. Working the following stitches using Power operated embroidery machine - Running stitch</p> <p>2. Variations of Running stitch.</p> <p>3. Cording stitch</p>	Refer Table-1	<p>1. Practicing Running Stitch</p> <p>2. Practicing Cording Stitch</p>
13	2	1,4	<p>1. Working the following stitches using Power operated embroidery machine – Satin Stitch.</p> <p>2. Variations of Satin stitch.</p> <p>3. Scallop edges.</p>	Refer Table-1	<p>1. Preparing swatches of Satin stitch.</p> <p>2. Preparing swatches of Scallop edge Satin stitch</p>
Total in hours			48	16	64

***PO= Program Outcome as listed and defined in year 1 curriculum and PO – CO mapping with strength (Low/Medium/High) has to be mapped by the course Co-Ordinator. (Above only suggestive)**

TABLE 1: Suggestive Activities for Tutorials: (The List is only shared as 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 and on the availability of such resources at their institution).

SL NO	Suggestive Activities For Tutorials
1	Embroider Aari work on any Garment
2	Decorate a Wall piece with tribal Embroidery
3	Prepare a Hand Purse with Tapestry Embroidery
4	Prepare a Pillow cover with Machine Embroidery Stitches
5	Prepare a Cut work Table Mat
6	Prepare a applique Work phone Mat
7	Prepare Scallop Edge Skirt
8	Decorate a blouse with Sequence, mirror , bead machine Embroidery
9	Create Double Needle embroidery swatch
10	Prepare Lace Embroidery Hand bag
11	Prepare a Net Applique Phone Mat
12	Prepare a machine embroidery Saree blouse with Neck Design
13	Prepare a mirror work Hand purse
14	Collect the pictures of frames and Needles ,threads, beads used for Aari embroidery
15	Embroider Felt Applique on cushion Cover
16	Create a wall hanger using Tribal embroidery
17	Collect the pictures of Embroidery machines

Note: i) Minimum 5 activities apart from collecting pictures.

ii) Folders should contain activities of all the units and submit the same at the endexam.

4. CIE and SEE Assessment Methodologies

Sl. No	Assessment	Test Week	Duration In minutes	Max marks	Conversion
1.	CIE-1 Written Test	5	80	30	Average of three tests 30
2.	CIE-2 Written Test	9	80	30	
3.	CIE-3 Written Test	13	80	30	
4.	CIE-4 Skill Test-Practice	6	180	100	Average of two skill tests reduced 20
5.	CIE-5 Skill Test-Practice	12	180	100	
6.	CIE-6 Portfolio continuous evaluation of Activity through Rubrics	1-13		10	10
Total CIE Marks					60
Semester End Examination (Practice)			180	100	40
Total Marks					100

5.Format for CIE written Test

Course Name	Surface Embellishment-II	Test	I/II/III	Sem	IV
Course Code	7442	Duration	80 Min	Marks	30
Note: Answer any one full question from each section. Each full question carries 10 marks.					
Section	Assessment Questions	Cognitive Levels	Course Outcome	Marks	
I	1				
	2				
II	3				
	4				
III	5				
	6				
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weight age of marks, Cognitive level and course outcomes.					

6.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

7.Reference:

Sl. No.	Description
1	Machine Embroidery --Dibbs Kristen
2	Traditional Embroideries of India -- Shailaja
3	1000 new Embroidery Designs - Joan Waldman
4	Embroidery--- charlotte Gerling's- craft work Books
5	The Encyclopedia of Embroidery Techniques -- Brown Pauline
6	Cutwork Embroidery --Rashhupkina S
7	The techniques of Indian embroidery -- Anne morel
8	Indian embroidery ---Jamila Brijabhushan
9	Embroidery machine essentials—Twigg Jeanie
10	Machine embroidery Art—Alison Hoitt

YouTube Links

1	https://www.youtube.com/watch?v=bvhuC9EzMYo
2	https://www.youtube.com/watch?v=xU0QImDuZjQ
3	https://www.youtube.com/watch?v=CToXat1UGWo
4	https://www.youtube.com/watch?v=Aw_kbItHmlo
5	https://www.youtube.com/watch?v=jBIXUdoxUqs
6	https://www.youtube.com/watch?v=QosmqitTW6w
7	https://www.youtube.com/watch?v=5p8sld51TMA
8	https://www.youtube.com/watch?v=0-polm8TeOw

8.CIE Skill Test and SEE Scheme of Evaluation

SL. No.	Particulars/Dimension	Marks
1	Tribal Embroidery/Aari/ Tapestry embroidery swatch	20
2	Tracing and Placement of Design	10
3	Machine Embroidery work Cut work/Sequence/bead/mirror/Applique/Machine embroidery stitches	40
4	Finishing	10
5	Viva-Voce	20
Total Marks		100

9.Equipment/software list with Specification for a batch of 20 students

Sl. No.	Particulars	Specification	Quantity
1	Power operated Embroidery machines	With ¼ HP motor	20
2	Lighted Tracing table		06
3	Aari work frames		15
4	Bent Sharp scissors		05

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JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED(AUTONOMOUS)

Programme	Apparel Design & Fabrication Technology	Semester	IV
Course Code	7443	Type of Course	Programme Core
Course Name	DYEING AND PRINTING	Contact Hours	8 hours/week 128 hours/semester
Teaching Scheme	L:T:P :: 3:1:4	Credits	6
CIE Marks	60	SEE Marks	40

1. Rationale- Textile printing provides immense knowledge about the methods involved in dyeing and Printing of Textiles. Today the Garments are designed with different fabrics and also with innovative Printing Techniques. India is rich in culture and heritage, each Region has its own printing techniques with innovative ideas, created developed. Hence the Textile printing helps the students to start an enterprise.

2. Course Outcomes/Skill Sets

CO-01	Knowledge of Present status of Cottage Industry.
CO-02	Acquire the knowledge of fabric finishing processes.
CO-03	Preparation of Dyes and Printing paste for dyeing and Printing.
CO-04	Ability to develop various Painting and Printing techniques.
CO-05	Understand the application of Dyes for different fabrics.

3. Course Content

Week	CO	PO	Lecture (Knowledge Criteria)	Tutorial (Activity Criteria)	Practice (Performance Criteria)
			3 hours/week	1 hour/week	4 hours/week (2 hours/batch twice in a week)
1	1	5,7	1. Cottage industry- Introduction - importance and Benefits 2. Types of cottage industry. 3. Study of Major cottage industries.	Refer Table-1	1. Visit to a local Cottage Industry. 2. Report on Cottage Industry visited.
2	2	1,2,3,7	Introduction to Fabric Finishing processes - Importance, Uses Bleaching and Desizing of Cotton yarns. Cotton Scouring and Silk Degumming	Refer Table-1	Conducting the following finishing process in the lab, Scouring, Desizing and Bleaching of Cotton yarns. Aim, apparatus required, Procedure, conclusion Conducting the following finishing process in the lab, Degumming and Bleaching of Silk yarns. Aim, apparatus required, Procedure, conclusion

3	3	1,3,4	<p>Introduction to dyes- Classification - Natural dyes.</p> <p>Synthetic dyes- Types of synthetic dyes and uses.</p> <p>Basic dyes- Types of basic dyes and uses.</p>	Refer Table-1	<p>Prepare a Shade card using Natural Dyes Aim, apparatus required, Procedure, conclusion.</p> <p>Prepare a Shade card using Natural Dyes Aim, apparatus required, Procedure, conclusion</p>
4	3	1,3,4	<p>Acid dyes- Types of Acid dyes and uses.</p> <p>Reactive Dyes- Types of reactive dyes and uses.</p> <p>Vat dyes- importance and uses.</p>	Refer Table-1	<p>Prepare a Shade card using Acid Dyes Aim, apparatus required, Procedure, conclusion</p> <p>Prepare a Shade card using Reactive Dyes Aim, apparatus required, Procedure, conclusion</p>
5	4	1,3,5	<p>Traditional Paintings- Introduction- Madhubani Paintings</p> <p>Warli Paintings</p> <p>Kerala Murals</p>	Refer Table-1	<p>Prepare the swatches of Madhubani painting with fabric colors</p> <p>Prepare the swatches of Warli painting with fabric colors.</p>
6	5	3,4,5	<p>1. Introduction to Printing Techniques.</p> <p>2. Stencil Printing- Introduction-Materials used</p> <p>3.Preparation of Stencils for multi colors.</p>	Refer Table-1	<p>1. Preparation of Stencils for multi color.</p> <p>2. Prepare a Hand Bag with Stencil Printing.</p>

7	5,6	1,3,4	<p>1. Block Printing- Introduction, Equipment's required</p> <p>2. Selection of Design and Blocks</p> <p>3. Pigment Dyes- Preparation of Binder.</p>	Refer Table-1	<p>1. Prepare a Table cloth using Block printing.</p> <p>2. Prepare a Table cloth using Block printing.</p>
8	5,6	1,3,4	<p>1. Screen Printing – Introduction and methods.</p> <p>2. Equipment's required for preparing screens.</p> <p>3. Procedure, advantages and uses.</p>	Refer Table-1	<p>1. Screen printing - BusinessCards/ Invitation card</p> <p>2. Screen printing - BusinessCards/ Invitation card</p>
9	3,5,6	1,3,5	<p>1. Kalamkari - Introduction</p> <p>2. Preparation of cloth and selection of design.</p> <p>3. Procedure, Advantages and uses.</p>	Refer Table-1	<p>1. Preparation of colors for Kalamkari Printing.</p> <p>2. Prepare Cushion Cover with kalamkari Design.</p>
10	3,5,6	1,3,5	<p>1. Tie and dye -Introduction.</p> <p>2. Pre Dyeing Process.</p> <p>3. Preparation of Dyes.</p>	Refer Table-1	<p>1. Preparation of fabric and Dyes</p> <p>2. Preparation of fabric and Dyes</p>
11	5,6	3,4,5	<p>1. Types of Tying the fabric.</p> <p>2. Materials used for Tying.</p> <p>3. Procedure for multi colors dyeing.</p>	Refer Table-1	<p>1. Prepare a tie and Dye for Dupatta with two or more colors.</p> <p>2. Prepare a tie and Dye for Dupatta with two or more colors.</p>
12	5,6	3,4,5	<p>Batik -Introduction, design selection</p> <p>Equipment's- preparing wax, Method of applying.</p> <p>Preparation of dyes based on fabric</p>	Refer Table-1	<p>1. Preparation of wax.</p> <p>2. Preparation of colors.</p>

13	5,6	3,4,5	Batik -Procedure of dyeing with single color and drying. Applying wax - dyeing using multiple colors . Dewaxing and Drying.	Refer Table-1	Prepare a Batik Wall piece/ Table Mat with multi colors. Prepare a Batik Wall piece/ Table Mat with multi colors.
Total in hours			48	16	64

***PO= Program Outcome as listed and defined in year 1 curriculum and PO – CO mapping with strength (Low/Medium/High) has to be mapped by the course Co-Ordinator. (Above only suggestive)**

TABLE 1: Suggestive Activities for Tutorials: (The List is only shared as 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 and on the availability of such resources at their institution).

SL NO	Suggestive Activities for Tutorials
1	Collect information about any Two cottage industry
2	Conduct Experiment on removal of curry and Tea stain on Cotton material
3	Prepare Gonda Painting Hand Bag
4	Collect the pictures of Traditional Indian paintings
5	Prepare any article with print and paint technique
6	Prepare Tie and dye Scarf
7	Prepare Batik Table cloth
8	Prepare a Mahbubani wall hanger
9	Prepare a Kalamkari dupatta
10	Collect the pictures of different Tie and dye effects
11	Preparation of Naphthol and base colors
12	Prepare any article using Kerala murals technique
13	Compare cottage industry and small scale industry
14	Collect the pictures of Screen printing screens
15	Compare Tie and Dye and Batik painting
16	Prepare a stencil printing Hand bag

Note: i) Minimum 5 activities apart from collecting pictures.

ii) Folders should contain activities of all the units and submit the same at the endexam.

4. CIE and SEE Assessment Methodologies

Sl. No	Assessment	Test Week	Duration In minutes	Max marks	Conversion
1.	CIE-1 Written Test	5	80	30	Average of three tests 30
2.	CIE-2 Written Test	9	80	30	
3.	CIE-3 Written Test	13	80	30	
4.	CIE-4 Skill Test-Practice	6	180	100	Average of two skill tests reduced 20
5.	CIE-5 Skill Test-Practice	12	180	100	
6.	CIE-6 Portfolio continuous evaluation of Activity through Rubrics	1-13		10	10
Total CIE Marks					60
Semester End Examination (Practice)			180	100	40
Total Marks					100

5. Format for CIE written Test

Course Name	Dyeing And Printing	Test	I/II/III	Sem	IV
Course Code	20FT43P	Duration	80 Min	Marks	30
Note: Answer any one full question from each section. Each full question carries 10 marks.					
Section	Assessment Questions		Cognitive Levels	Course Outcome	Marks
I	1				
	2				
II	3				
	4				
III	5				
	6				
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.					

6. 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

7. Reference:

Sl. No.	Description
1	Textile Design - Carol Joyce - Google Books
2	Printed Textile Design by Amanda Briggs-Goode
3	Printmaking Handbook by Louise Woods
4	Batik and tie dye techniques by Nancy Belfer
5	Batik design by Pepin Roojen

YouTube Links

1	https://www.youtube.com/watch?v=fImpanUPjS8
2	https://www.youtube.com/watch?v=ParqI-5lVg
3	https://www.youtube.com/watch?v=uY4K-rh54iU
4	https://www.youtube.com/watch?v=6KV8u0lohU
5	https://www.youtube.com/watch?v=C7u6aZepQn0
6	https://www.youtube.com/watch?v=OH5u6Fyy26c
7	https://www.youtube.com/watch?v=bPCX22jvVFw
8	https://www.youtube.com/watch?v=NemjpuBHAW0

8.CIE Skill Test and SEE Scheme of Evaluation

SL. No.	Particulars/Dimension	Marks
1	Preparation of dyes	20
2	Design Development, Tie and Dye/Batik/Block Printing	50
3	Finishing and Presentation	10
4	Viva-Voce	20
Total Marks		100

9.Equipment/software list with Specification for a batch of 20 students

Sl. No.	Particulars	Specification	Quantity
1	Wooden Blocks of different designs		20sets
2	Block printing Table		1
3	Handy Gas		1
4	Utensils		

GOVERNMENT OF KARNATAKA
DEPARTMENT OF COLLEGIATE AND TECHNICAL EDUCATION
JSS POLYTECHNIC FOR THE DIFFERENTLY ABLED (AUTONOMOUS)

Programme	Apparel Design And Fabrication Technology	Semester	IV
Course Code	7444	Type of Course	Programme Core
Course Name	PATTERN AND DESIGNING CAD	Contact Hours	8 hours/week 128 hours/semester
Teaching Scheme	L:T:P :: 3:1:4	Credits	6
CIE Marks	60	SEE Marks	40

1. Rationale: Computer Aided Design assist in the creation & modification. Enables to translate Individual Knowledge to organizational Knowledge by automating the Designing/ pattern making/ maker planning process. Computer Aided Design benefits the students and the organization by producing accurate patterns, grading, tightest markers, and feed accurate cut parts to the sewing sections. Translates pattern engineering skills into Organizational Knowledge. Enables reuse and modification of existing patterns. Eliminates/ minimizes errors/Faster Grading/ Friendly Shrinkage/ Tight Marker and Time saving.

2. Course Outcomes/Skill Sets

CO-01	Associate computer application and Fashion software.
CO-02	Construction of basic designs in Textile and Fashion.
CO-03	Creating different textural effects and weaves in the fabric.
CO-04	Designing Garments, Grading techniques and Marker Planning.

3. Course Content

Week	C O	PO	Lecture (Knowledge Criteria)	Tutorial (Activity Criteria)	Practice (Performance Criteria)
			3 hours/week	1 hour/week	4 hours/week(2 hours/batch twice in a week)
1	1,2	1,4,6	1. Introduction to CAD software's used in fashion designing. 2. To give an over view of CAD and its application. 3. Study of various software's used in Garment Making.	Refer Table-1	1. Practicing Designs using the above software tools. 2. Creating basic designs using geometrical patterns
2	1,2,3,4	1,4,6	1. Designing of repeats – ¼, ½, ¾, Cross, Brick repeat. 2. Symmetrical and Asymmetrical designs. 3. One way design, abstract, all over	Refer Table-1	1. Practicing: Designing of repeats – ¼, ½, ¾, Cross, Brick repeat. 2. Practicing: One way design, abstract, all over

3	1,2,3,4	1,4,6	<p>1.Checks, Stripes – vertical and horizontal, plaids</p> <p>2.Set Texture’s Dye, Knitting effect,</p> <p>3.Crinkle, Leather effect.</p> <p>4.Light, display mode, Define show ratio, back ground colour, ruler, design E- studio, System shortcut forms, Layers, Material area.</p>	Refer Table-1	<p>1.Practicing: Checks, Stripes – vertical and horizontal, plaids.</p> <p>2.Practicing: weaving textures, Knitting effect, Crinkle, Leather effect</p>
4	1,2,3,4	1,4,6	<p>1.Pick object, Create curve, Edit curve, Create surface, Modify Clip border, Rescale surface grid,</p> <p>2.Edit Surfaces grid, Fold, Create tape, Edit clip, Texture table, Rescale texture, Create, Text, Pick colour, Set canvas property.</p> <p>3.Different Men and women clothing.</p>	Refer Table-1	<p>1.Practicing: Create curve, Edit curve, Create surface, Rescale surface grid,. Edit Surfaces grid, Rescale texture.</p> <p>2.Practicing: Men and women clothing.</p> <p>Casual wear</p> <p>Formal wear.</p> <p>Party wear</p>
5	1,2,5	1,4,6	<p>1.Set canvas, Clip image, Edit image alpha.</p> <p>2.Colour management, Draping.</p> <p>3.Fill colour, pen, Local skew, Pick colour.</p>	Refer Table-1	<p>1.Practicing: Edit image alpha.</p> <p>2.Practicing: Fill colour, pen, Local skew, Pick colour</p>
6	1,2,5	1,4,6,7	<p>1.Introduction to GARMENT CAD.</p> <p>2.Standard Tool Bar, Traditional tool bar, professional tool bar, Piece tool bar, Piece layout tool bar. File menu, Edit menu, Piece menu, Grading, View menu, Option Menu</p> <p>3.Pick up piece, How to draw darts, Weave line, Add seam allowance to a piece, set a piece information, print</p>	Refer Table-1	<p>1.Practicing: Standard Tool Bar, Traditional tool bar, professional tool bar,</p> <p>2.Practicing: . Drafting of garment.</p>

7	1,2,5	1,4,6,7	1.Preparation of Pattern using standard measurements. 2.Pattern Grading – Introduction. 3.Types of Grading- Point Grading, Line Grading	Refer Table-1	1.Practicing Grading of Patterns. 2.Practicing Grading of Patterns
8	1,2,5	1,4,6,7	1.Manual grading and Computer grading, 2.Advantages of Grading. 3. Application of Grading.	Refer Table-1	1. Practicing: Pattern Menu, Modify Menu, Grading, Point Grading Menu 2. Practicing: Marker Tool Bar, File Tool Bar, Piece Tool Bar, File Menu, Piece Menu, Marker Option, Nesting.
9	1,2,5	1,4,6,7	1. Introduction to Lay planning 2. Fabric preparation: Preparing the fabric for cutting, 3. Importance of grain in fabric cutting and garment construction.	Refer Table-1	1. Practicing: Fabric preparation. 2. Practicing: different width of fabrics, usage, planning of lay marker
10	1,2,5	1,4,6,7	1. Prepare the Mini marker and print the same for the following Garments with different fabric texture. 2. Yoke Frock, umbrella frock. 3. Estimation of marker consumption.	Refer Table-1	1. Practicing: Mini marker for Yoke Frock, umbrella frock. 2. Practicing: marker consumption.
11	1,2,5	1,4,6,7	1. Prepare the Mini marker for 2. Nehru Shirt 3. Salwar Kameez	Refer Table-1	1. Practicing: Mini marker for Nehru Shirt, . Salwar Kameez 2. Practicing: marker consumption.
12	1,2,5	1,4,6,7	1. Prepare the Mini marker for 2. Trousers 3. with different width of fabrics and its consumption	Refer Table-1	1. Practicing: Mini marker for Trousers 2. Practicing: marker consumption.
13	1,2,5	1,4,6,7	1. Prepare the Mini marker for 2. Any coats 3. with different width of fabrics and its consumption	Refer Table-1	1. Practicing: Mini marker for Any coats. 2. Practicing: marker consumption
Total in hours			48	16	64

Note: i) Minimum 5 activities apart from collecting pictures.

ii) Folders should contain activities of all the units and submit the same at the endexam.

***PO= Program Outcome as listed and defined in year 1 curriculum and PO – CO mapping with strength (Low/Medium/High) has to be mapped by the course Co-Ordinator. (Above only suggestive)**

TABLE 1: Suggestive Activities for Tutorials: (The List is only shared as 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 and on the availability of such resources at their institution).

SL NO	SUGGESTIVE ACTIVITIES FOR TUTORIAL
1	Collect information about CAD used in garment industry.
2	Creating the Traditional prints used on fabric.
3	Editing of accessories using CAD.
4	Prepare a report on different CAD software's.
5	Prepare a report on CAD taken as career.
6	Prepare double pick marker lay
7	Prepare graded pattern set with S,M,L,XL size
8	Collect the pictures of different Mini marker
9	Compare manual and computerized pattern making.
10	Prepare a report on computerized pattern making used in national and international countries.
11	Design and drape a designer gown
12	Design and Drape a designer saree
13	Design and Drape a designer men's party wear
14	Design and Drape a bohemian style dress.
15	Design and Drape a Retro style.

4.CIE and SEE Assessment Methodologies

Sl. No	Assessment	Test Week	Duration In minutes	Max marks	Conversion
1.	CIE-1 Written Test	5	80	30	Average of three tests 30
2.	CIE-2 Written Test	9	80	30	
3	CIE-3 Written Test	13	80	30	
4.	CIE-4 Skill Test-Practice	6	180	100	Average of two skill tests reduced to 20
5	CIE-5 Skill Test-Practice	12	180	100	
6	CIE-6 Portfolio continuous evaluation of Activity through Rubrics	1-13		10	10
Total CIE Marks					60
Semester End Examination (Practice)			180	100	40
Total Marks					100

5.Format for CIE written Test

Course Name		Test	I/II/III	Sem	III/IV
Course Code		Duration	80 Min	Marks	30
Note: Answer any one full question from each section. Each full question carries 10 marks.					
Section	Assessment Questions		Cognitive Levels	Course Outcome	Marks
I	1				
	2				
II	3				
	4				

III	5			
	6			
Note for the Course coordinator: Each question may have one, two or three subdivisions. Optional questions in each section carry the same weight age of marks, Cognitive level and course outcomes.				

6. Rubrics for Assessment of Activity (Qualitative Assessment)

Sl. No.	Dimension	Beginner	Intermediate	Good	Advanced	Expert	Students Score
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

7. Reference:

Sl. No.	Description
1	https://youtu.be/yWvmS69SjLA
2	https://youtu.be/WaQV8IU4iR0
3	https://youtu.be/jxG4SNY_GaU
4	https://youtu.be/vTE5W9G-DSY
5.	https://youtu.be/UjD0yVXYsXc

8. CIE Skill Test and SEE Scheme of Evaluation

SL. No.	Particulars/Dimension	Marks
1	Create a weave effect using Textile CAD	10
2	Create repeats using Textile CAD	10
3	Create a pattern and Grade the same for SML sizes	30
4	Estimate using mini marker and Marker Efficiency.	30
5	Viva-Voce	20
Total Marks		100

9. Equipment/software list with Specification for a batch of 20 students

Sl. No.	Particulars	Specification	Quantity
1.	Pattern and Garment CAD software		10
2.	Textile and Fashion CAD		10

GOVERNMENT OF KARNATAKA
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Programme	Audit Course	Semester	IV
Course Code	7445	Type of Course	Audit
Course Name	Indian Constitution	Contact Hours	2 hours/week 26 hours/semester
Teaching Scheme	L:T:P :: 2:0:0	Credits	2
CIE Marks	50	SEE Marks	Nil

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

CO-01	CO1	Understand Preamble, salient features and importance of Indian Constitution.
CO-02	CO2	Understand Fundamental rights, duties and Directive principles of state policy.
CO-03	CO3	Understand Parliamentary system of governance, Structure, Functions, Power of Central, state governments (Legislative, Executive) and Judiciary.
CO-04	CO4	Understand Panchayat Raj Institutions and Local self-governments, UPSC, KPSC, NHRC, Status of women, RTE etc.

2. Course Content

Week	CO	Detailed Course Content	Contact Hours
1	1	Introduction to constitution of India-Formation and Composition of the Constituent Assembly-Salient features of the Constitution-Preamble to the Indian Constitution	2
2	1,2	Fundamental Rights- Definition, The right to equality, The right to freedom, The right against exploitation, The right to freedom of religion.	2
3	1,2	Cultural and educational rights and The right to constitutional remedies. Fundamental Duties, Directive principles of state policy.	2
4	1,3	Parliamentary system of governance- Structure of Parliament- Lok Sabha and Rajya Sabha. Functions of parliament- Legislative, Executive, Financial Function Powers of Lok Sabha and Rajya Sabha.	2
5	1,3	Procedure followed in parliament in making law, Annual financial statement (Budget) – procedure in parliament with respect to estimates, Appropriation bill, Supplementary, additional grants, Vote on account, votes on credit and exception grant, special provisions, rules of procedure.	2
6	1,3	Structure of union executive, Power and position of President. Vice President, Prime minister and council of ministers.	2
7	1,3	Structure of the judiciary: Jurisdiction and functions of Supreme Court, highcourt, and subordinate courts.	2
8	1,3	Federalism in the Indian constitution- Division of Powers: Union list, State list and concurrent list. Structure of state legislation, Legislative assembly and Legislative council.	2

9	1,3	Functions of state legislature, Structure of state executive-Powers and positions of Governor, Speaker, Deputy Speaker, Chief Minister and council of minister.	2
10	4	Local self-government- meaning-Three tier system, Village Panchayat-Taluk panchayat Zilla panchayat, Local bodies-Municipalities and Corporations, Bruhath Mahanagara Palike, Functions of Election commission, UPSC, KPSC.	2
11	4	Amendment of the constitution, Human Rights-Definition-constitutional provisions-right to life and liberty-Human Rights of Women-Discrimination against women steps that are to be taken to eliminate discrimination against women in Education, employment, health care, Economic and social life,	2
12	4	Status of Women in India - Women in rural areas, Constitutional Safeguards - Dowry Prohibition act 1961- Domestic violence act 2005- Sexual harassment at work place bill 2006. Human Rights of Children- Who is a child- list the Rights of the Child- Right to education, Protection of Children from Sexual Offences Act (POCSO)-2012-	2
13	1,4	National Human Rights Commission Constitution- Powers and function of the Commission-Employee rights- Provisions made, Contractual-Non contractual employee rights-Whistle blowing-definition-Aspects-Intellectual Property Rights (IPR)-Meaning-Need for protection- Briefly description of concept of patents, Copy right, Trademark	2
Total in Hours			26 Hrs

REFERENCES

1. Introduction to the Constitution of India- Dr. Durga Das Basu
2. Empowerment of rural women in India-Hemalatha H.M and Rameshwari Varma, HemaPrakashana.

4. CIE and SEE Assessment Methodologies

Sl. No	Assessment	Test Week	Duration In minutes	Max marks	Conversion
1.	CIE-1 Written Test	5	80	30	Average of three tests 30
2.	CIE-2 Written Test	9	80	30	
3.	CIE-3 Written Test	13	80	30	
4.	CIE-4 MCQ	6	60	20	Average of two CIE = 20
5.	CIE-5 Open Book Test	12	60	20	
Total CIE Marks					50
Semester End Examination (Practice)			-	-	-
Total Marks					50