

20STATE BOARD OF TECHNICAL EDUCATION, BIHAR
Scheme of Teaching and Examinations for
Vth SEMESTER DIPLOMA IN COSTUME DESIGN & GARMENT
TECHNOLOGY
(Effective from Session 2020-21 Batch)

THEORY

Sr. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME	EXAMINATION – SCHEME							Credits
			Periods per Week	Hours of Exam.	Teacher's Assessment (TA) Marks (A)	Class Test(CT) Marks (B)	End Semester Exam. (ESE) Marks (C)	Total Marks (A+B+C)	Pass Marks ESE	Pass Marks in the Subject	
1.	Advance Pattern Making	2042501	03	03	10	20	70	100	28	40	03
2.	Fashion Accessories	2042502	03	03	10	20	70	100	28	40	03
3.	Apparel Quality Control	2042503	03	03	10	20	70	100	28	40	03
4.	Embroidery Technology	2042504	03	03	10	20	70	100	28	40	03
5.	Advanced Apparel Production Technology	2042505	03	03	10	20	70	100	28	40	03
Total:- 15							350	500			15

PRACTICAL

Sr. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME	EXAMINATION – SCHEME					Credits
			Periods per Week	Hours of Exam.	Practical (ESE)		Total Marks	Pass Marks in the Subject	
					Internal (PA)	External (ESE)			
6.	Advance Pattern Making Lab.	2042506	04 50% Physical 50% Virtual	03	15	35	50	20	02
7.	Embroidery Technology Lab.	2042507	04 50% Physical 50% Virtual	03	15	35	50	20	02
8.	Needle Craft Lab.	2042508	04 50% Physical 50% Virtual	03	15	35	50	20	02
Total:- 12							150		06

TERM WORK

Sr. No.	SUBJECTS	SUBJECT CODE	TEACHING SCHEME	EXAMINATION – SCHEME				Credits
			Periods per week	Marks of Internal (PA)	Marks of External (ESE)	Total Marks	Pass Marks in the Subject	
9.	In Plant Training & Visit to Work (TW)	2042509	4 weeks continuous	15	35	50	20	02
10.	Course Under Moocs /Swayam/ Others	2042510	02	15	35	50	20	01
Total:- 02						100		03
Total Periods per week Each of duration one Hours = 29						Total Marks = 750		24

ADVANCE PATTERN MAKING

Subject Code 2042501	Theory			No of Period in one session : 42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

RATIONALE: This course imparts the knowledge of advanced pattern designing using flat pattern technique and draping technique. This course also imparts the skill in advanced pattern making of upper and lower garments using flat pattern technique. It is useful for the students for advanced pattern design and fashion designing. This knowledge is useful for preparing fashioned garments at par with the industry and advanced pattern designing of complex garments such as contour fit using flat pattern technique. It will also be useful for the students to design haute couture and preparing fashioned garments at par with the needs of the industry. Thus it is a key course for costume designers and hence students should develop mastery over it.

Objectives: Students will be able to:

1. Prepare dress and trouser blocks.
2. Prepare appropriate patterns to design fashioned garments.
3. Draft and grade lower block for men and women as per requirement.
4. Develop contoured garments of various types for different applications.

CONTENTS :THEORY

	Name of the Topic
UNIT-1	Techniques of Drafting of Children Block. 1.1 Drafting of children block for boy (8- 10 years). 1.1.1 Development of basic children Shirt from bodice block and its variations. 1.2 Drafting of children block for girl (6- 8 years). 1.2.1 Girl's block variation Dress/frock etc.
UNIT-2	Techniques of Drafting of Men's Shirts. 2.1 Drafting of Men's Shirt and its variations. 2.1.1 Drafting of formal shirt. 2.1.2 Drafting of casual shirt.
UNIT-3	Techniques of Draping of Torso Block. 3.1 Development of torso/dress block by draping method. 3.1.1 Development of Shift (semi fit) and box fit (loose fit) from sheath fit(close fit) torso by using flat pattern making technique and development of their slopers for design adaptation.
UNIT-4	Adaptation of Indian Kurta from Torso Block. 4.1 Adaptation of dress blocks into <i>Indian Kurta</i> , princess line <i>kurta</i> etc. In different fits (fitted, semi fitted and loose fit).
UNIT-5	Techniques of drafting of Men's trouser block 5.1 Drafting of trouser block for men & its test fit.
UNIT-6	Techniques of drafting of Women's trouser block 6.1 Drafting of trouser & skirt block for women & its test fit.
UNIT-7	Adaptation of trouser block (male/female) in variations 7.1 Adaptation of Trouser block (male/ female) to its variations: Flared trouser, Short, Capri, A- line, Umbrella, Pegged top.
UNIT-8	Techniques of drafting of Salwar & Churidar 8.1 Drafting of Indian bifurcated garment for women & its test fit. 8.1.1 Salwar & Churidar and its variations as per trend.
UNIT-9	Manual grading 9.1 Introduction to manual grading- grading concepts, principles of grading, terminology, zero point, type of grading methods. 9.1.1 Grading of single dart basic bodice block by nest method (two size up - one size down). 9.1.2 Grading of Basic skirt block by nest method (two size up - one size down). 9.1.3 Grading of men's trouser by nest method (two size up - one size down).
UNIT-10	Contour Fit Blocks 10.1 Development of Contour fit block from bodice block. 10.2 Contour fit variations – corset, halter, empire line, evening gown / dress etc. 10.3 Development of Sleeve for contour fit block. 10.4 Design and construct contour fit garment.
UNIT-11	Sari blouses 11.1 Designing of Choli blouse/ princess line/ blouse variation as per current trend. 11.2 Drafting of 3 dart blouse by drafting method and its test fit. 11.3 Construct Choli blouse/ princess line/ blouse variation as per current trend and its test fit.

List of Recommended Books

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

FASHION ACCESSORIES

Subject Code 2042502	Theory			No of Period in one session : 42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

Rationale: This course will enable students to know about various fashion accessories which are used to complement fashion. Accessories help in highlighting a dress or apparel.

Objectives: Students will be able to:

1. To understand value addition to costumes by innovative use.
2. To understand techniques such as Embellishments, Sequins & other forms.

CONTENTS :THEORY

List of Recommended Books

	Name of the Topic	Hrs	Marks
Unit-1	Introduction 1.1 Fashion accessories: Definition, History, Classification, Present trends in fashion accessories and its importance and uses. 1.2 Accessory types: Head gears, Footwear, neck wear and belts, Hand bags, gloves and Mitts, Scarves, shawls, stoles stacking, Sun glasses.	06	05
Unit-2	Handbags and Shoes 2.1 Handbags: Introduction and history, Importance in the fashion, Industry and sourcing of material and trims, Materials used for handbags, Design of different styles of handbags, Construction details of handbags, Care and maintenance, Uses with style. 2.2 Shoes: Introduction and history, Industry and sourcing of material and trims, Materials used for Shoes, Design of different styles of Shoes, Construction details of Shoes, Care and maintenance, Uses with style. 2.3 Marketing position of handbag and shoes.	08	15
Unit-3	Gloves and Belts 3.1 Gloves: Introduction, Importance in the fashion, Industry and sourcing of material and trims, Materials used for Gloves, Design of different styles of Gloves, Construction details of Gloves, Care and maintenance, Uses with style. 3.2 Belts: Introduction, Industry and sourcing of material and trims, Materials used for Belts, Design of different styles of Belts, Construction details of Belts, Care and maintenance, Uses with style. 3.3 Marketing position of Gloves and Belts.	08	15
Unit-4	Hats and Neckwear 4.1 History, Industry and Sourcing, Material and trims sourcing 4.2 Materials used for Hats and Neckwear Design of different styles of Hats and Neckwear, Construction details of Hats and Neckwear 4.3 Marketing position of Gloves and Belts: Product promotion of Gloves, Product promotion of Belts 4.4 Care measure taken for maintenance: Care and maintenance	08	15
Unit-5	Costume Jewellery 5.1 History, Industry and Sourcing, Material and trims sourcing, Materials used for jewellery, Design of different styles of jewellery, Construction details of jewellery. 5.2 Marketing position of Jewellery: Product promotion of Jewellery 5.3 Care measure taken for maintenance: Care and maintenance	06	10
Unit-6	Scarves and Stole 6.1 History, Industry and Sourcing, Material and trims sourcing, Materials used for Scarves and Stole, Design of different styles of Scarves and Stole, Construction details of Scarves and Stole 6.2 Marketing & product position of Scarves and Stole. 6.3 Care measure taken for maintenance: Care and maintenance	06	10
Total		42	70
Sr. No.	Title	Author	Publisher
1.	Simple Accessories	Jeff Sone & Johnson Gros	--
2.	Fashion From Concept to Consumer	Gini Stephens Frings	Pearson publications, 2009
3.	The complete 20th Century Source Book	John Peacock	Thames and Hudson, London, 2000,
4.	Fashion Accessories- Men	John Peacock	Thames and Hudson, London, 1996
5.	Century of Bags	Claire Billcocks	Chartwell Books, New Jersey 1997
6.	Shoes -Fashion and Fantasies	Malolow Blahnik- Co Collin Mac dolw	Thames and Hudson, 1989

APPAREL QUALITY CONTROL

Subject Code 2042503	Theory			No of Period in one session : 42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

Rationale: The need for quality products by customers is increasing day by day and garment industry is no different. This course tries to develop requisite competency and skills in by diploma holders to carry out inspection at various stages of garment construction viz. pre-production inspection of fabric, in work inspection etc. Thus after learning this course diploma holders would be able to ensure that quality is maintained during production and general quality checks that are essential before transit are carried out.

Objectives: Students will be able to:

- i. Employ inspection and quality checks on apparel to ensure quality product.
- ii. Select appropriate standard and specification for dress making
- iii. Apply requisite test for ensuring fabric quality
- iv. Measure garments Shirt, Trouser, T-Shirt, and Jeans, flow charts
- v. Identify finishing defects

CONTENTS : THEORY

	Name of the Topic	Hrs	Marks
UNIT-1	Introduction to quality 1.1 Definition, Related terms. 1.2 ISO, Quality Assurance, Quality Control, Quality Management.	03	05
UNIT-2	Standards and specifications 2.1 Standards 2.1.1 Type: National and International standards(AATCC, ASTM, ANSI, ISO, BSI, BIS) 2.1.2 Importance 2.1.3 Difference between various standards 2.1.4 Grade definition 2.2 Specification 2.2.1 Need and Importance 2.2.2 Types 2.2.3 Process of development 2.2.4 Tolerances, limits.	05	05
UNIT-3	Fabric Quality 3.1 Fabric Inspection and grading 3.2 Fabric defects 3.3 Inspection machines/Equipment's 3.4 Grading of fabric 3.5 4 point and 10 point system	03	05
UNIT-4	Fabric Testing 4.1 Standard used 4.2 Equipment used 4.3 Types of Test: Physical Tests and Colour fastness tests.	03	05
UNIT-5	Role of Quality in Cutting and Fusing 5.1 Quality parameters: Marker making, Spreading, Cutting, Bundling, Ticketing, Fusing. 5.2 Quality problems due to fusing.	03	05
Unit-6	Cutting Room Equipment 6.1 Straight Knife Cutter, Round Knife Cutter, Bend Knife Machine. 6.2 Die Cutter. 6.3 Notcher, Drill Machine.	03	05
Unit-7	Computerized Cutting Room Equipment 7.1 Automatic Cutter – single ply and multiply, Automatic Spreader, Laser Cutter, Ultrasonic Cutter, Water jet Cutter 7.2 Steam press with steam table and boiler (different types of bugs, Non Return Valve, steam trapper, cladding, steam line etc.)	05	05
Unit-8	Finishing Equipment 8.1 Basic understanding of the following finishing room equipments: Foam finisher, Tunnel finisher, Steam Dolly, Carousel press, Topper & leggers.	03	05
Unit-9	Devices 9.1 Various types of attachments, folders, guides, pressure feet etc.	03	05

Unit-10	Advance Machines 10.1 Different Advance Machines.	02	05
UNIT-11	Inspection Procedures in the Sewing room 11.1 Object of Inspection. 11.2 Inspection Loop 11.3 Types of Inspections 11.4 Identification of various minor and major defects.	02	05
UNIT-12	Garment Inspection Checkpoints 12.1 Key Inline checkpoints for standards Garment Types	02	05
UNIT-13	Garment Measuring 13.1 Measure garments 13.2 Shirt, Trouser, T-Shirt, and Jeans, flow charts.	03	05
UNIT-14	Quality in Finishing room 14.1 Finishing Defects	02	05
Total		42	70

List of Recommended Books

Sr. No.	Title of Book	Author	Publication
1.	Managing Quality in Apparel Industry	Mehta & Bharadwaj	NewAge Publisher, Delhi
2.	Handbook of Quality	Joseph Juran	Mc Graw Hill. ISBN 978-0-07-0162973-7
3.	Principles of Textile Testing	J.E. Booth	Published by CBS Publishers & Distributors Pvt. Ltd., 1996
4.	Evaluation of Apparel Quality Fairchild Textile & Clothing	Lehnert Gertrud	ASQC, Quality Press, USA. 1990

EMBROIDERY TECHNOLOGY

Subject Code 2042504	Theory			No of Period in one session : 42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

RATIONALE: This course will provide basic knowledge of embroidery stitches, tools and equipments required for embroidery and about traditional embroidery of India. It is necessary to learn basic embroidery stitches for enhancing the beauty of garments. Numerous fabrics are required to be known to the students on which embroidery is done. Also the Indian state wise hand embroidery and modern machine embroidery. This course will provide base to make garments aesthetically beautiful.

Objectives: Students will be able to:

1. Select appropriate embroidery type for given garment design.
2. Prepare samples of traditional Indian embroidery.

CONTENTS : THEORY

UNIT	Name of the Topic	Hrs	Marks
Unit-1	Introduction to embroidery and tools and equipment required for hand embroidery. 1.1 History and Origin of embroidery 1.2 Development of embroidery 1.3 Importance of embroidery and need of embroidery in garments (to increase beautification, to hide short lacking, to show tradition, to show different culture). 1.4 Uses of embroidery. 1.5 Selection, use and maintenance of tools and equipment for embroidery. 1.6 Various threads used in embroidery. 1.7 Accessories used in embroidery. 1.8 Various types of Needles and fabrics with its impact on quality parameters. 1.9 General rules for hand embroidery 1.10 Design transfer techniques 1.11 Selection of method of design transfer	08	14
Unit-2	Different types of Basic Embroidery Stitches. 2.1 Back stitch 2.2 Stem Stitch 2.3 Blanket stitch 2.4 Chain stitch 2.5 Laid and Couching /cording 2.6 Cross stitch 2.7 Feather stitch / Fly stitch 2.8 Satin stitch 2.9 Lazy –daisy stitch 2.10 Bullion and French knot 2.11 Long and short stitch 2.12 Herring bone	06	12
Unit-3	Different types of Indian Embroideries. 3.1 Kashmiri Kashida/Kashmiri Embroidery. 3.2 Bagh and Phulkari of Punjab. 3.3 Chamba Rumals of Himachal. 3.4 Kashida, Sujani and appliqué of Bihar. 3.5 Bengal Kantha embroidery 3.6 Murshidabad and Dacca embroidery. 3.7 Manipuri embroidery. 3.8 Rajasthan embroidery. 3.9 Kasuti of Maharashtra and Mysore. 3.10 Chikankari of Luchnow, Uttar Pradesh. 3.11 Kutch and Kathiawar embroidery of Gujarat. 3.12 Gold and silver embroidery (zardosi).	12	20
Unit-4	Product Development 4.1 Designing of Product with Application of Any One Traditional Embroidery	04	06
Unit-5	Ornamental Techniques 5.1 Eyelet work, Lace work, Cut work, Patch work, Bead work, Sequins work.	04	06

Unit-6	Machine Embroidery 6.1 Introduction to various types of embroidery machines and their application. 6.2 Study of difference between hand embroidery and machine embroidery. 6.3 Embroidery related to all fashion elements. 6.4 Introduction to various types of embroidery software. 6.5 Design in computerized embroidery machines: Study of tools in embroidery software for designing.	08	12
	Total	42	70

List of Recommended Books

Sr. No.	Title of Book	Author	Publication
1	Traditional Embroideries of India	Dr. Shailaja D. Naik	A.P.H. Publishing Corporation, New Delhi , 1996
2	Crafts of Gujarat Embroidery Ornaments.	Jaya Jaitly	
3	Textiles and embroidery of India	Kamladevi Chattopadhyay & Jasleen Dhamecha	Mark Publications, 34-38Bank street, Bombay, India.
4	Indian Embroidery	Savitri Pandit	
5	A stitch in Gujarat embroidery	----	The Gujarat state Handicraft &Handloom Development Corporation Ltd.
6	Bhartiya Kashidakari	Dr. Amita Patel &Anita Patel	Avichl Science Foundation, V.V. Nagar
7	Complete guide to needlework	----	Reader digest publication,
8	Ethnic Embroidery of India	Usha Shrikant	Honesty Publisher & Distributors
9	The coats book of Embroidery	Mary Gostelow	David & Charles Newton, Abbot London Vancouver
10	Embroidered Textiles	Shaila Paine,	Thames & Hudson Ltd, Delhi. 1990
11	Inspirational Ideas for embroideries of India	Gail Lawther	Search Press Ltd Delhi. 1992
12	Encyclopedia of needle work		Fashion Book Company of India

ADVANCED APPAREL PRODUCTION TECHNOLOGY

Subject Code 2042505	Theory			No of Period in one session : 42			Credits 03
	No. of Periods Per Week			Full Marks			
	L	T	P/S	ESE	:	70	
	03	—	—	TA	:	10	
				CT	:	20	

RATIONALE: This course gives an awareness of technologies and processes being used in different departments of the apparel production industry. It intends to enable students capable to choose appropriate technology for apparel production and plan production schedule based on knowledge of production capacities of different production machines and time required in different processes.

Objectives: Students will be able to:

- i. Plan the processes associated with stores, cutting department, sewing department and finishing department for quality apparel production.
- ii. Manage the ware house
- iii. Describe different steps in cutting department processes for quality cutting
- iv. Explain different steps in sewing department processes for quality sewing
- v. Describe the different steps in finishing department processes for quality finishing

CONTENTS : THEORY

UNIT	Name of the Topic	Hrs	Marks
UNIT-1	Warehouse management 1.1 Store management system (LIFO , FIFO, Delivery Chalan, Stock management) 1.2 Store report generation 1.3 Report format example	06	10
UNIT-2	Cutting department process 2.1 Marker planning 2.2 Marker making – shirt/ trouser/ t-shirt by miniature or full size patterns for woven and knit (open and tubular) fabric 2.3 Marker making - Check and plaid fabric 2.4 Various ways of marker and their relation with fabric design and weave 2.5 Single pattern double ply marker 2.6 Marker efficiency calculation 2.7 Cut order planning 2.8 Fabric reconciliation report 2.9 Effect of width variation on spreading & cutting 2.10 Effect of fabric shrinkage on spreading & cutting 2.11 Dealing with fabric problems - bowing, skewing& fabric defects 2.12 Different types of spreading 2.13 Introduction to interlining and its checking parameters	18	28
UNIT-3	Sewing department process 3.1 Operation breakdown and line balancing 3.2 WIP management 3.3 Line loading based on type of production system 3.4 Preparation for next lot of sewing 3.5 Preparation for introducing new style 3.6 Parameters of line (quality, response time, WIP, throughput, line supervision, crisis management) 3.7 Production reports 3.8 Under pressing 3.9 Setting up of inspection points 3.10 Trims planning	12	22
UNIT-4	Finishing department process 4.1. Ironing, pressing, tagging, folding of shirt, trouser, t-shirt, undergarment 4.2. Various packing ratio and packing methods 4.3. Carton marking 4.4. Quality check and analysis 4.5. Reports on quality 4.6. Report on cut to pack ratio	06	10
Total		42	70

List of Recommended Books

Sr. No.	Title of Book	Author	Publication
1.	Technology of clothing Manufacturers	Harold Carr & Barbera Latham	Blackwell Science
2.	Apparel Manufacturing Analysis	Jacob Solinger	Bobbin Media Corporation, 1988

ADVANCE PATTERN MAKING LAB

Subject Code 2042506	Practical			No of Period in one session : 75			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)	:	15	
	—	—	04	External (ESE)	:	35	

CONTENTS : PRACTICAL

Unit	List of Experiment:-	Hrs	Marks
Unit-1	Prepare a upper body block for child (boy, 8-10 years) by drafting method and its test fit	03	
	Create a basic shirt by adaptation of upper body block	02	
	Prepare a upper body block for child (Girl 6-8 years) by drafting method and its test fit	03	
	Create a dress/ frock by adaptation of upper body block	02	
Unit-2	Prepare a draft of men's formal shirt and its test fit	03	
	Prepare a draft of men's casual shirt and its test fit	03	
Unit-3	Prepare a torso block (sheath) by draping method	03	
	Prepare a shift and box fit block from torso (sheath) block and its test fit	03	
	Prepare slopers for all three torso block (sheath, shift & box)	03	
Unit -4	Adapt torso block to create a Indian Kurta, princes line kurta etc. in different fits (fitted, semi fitted or loose fit) and its test fit	04	
Unit -5	Prepare trouser block for men by drafting method & carry out its test fit	03	
Unit -6	Prepare trouser block for women by drafting method & carry out its test fit	03	
Unit -7	Adapt trouser block for its variations- flared trouser, pleated trouser, short, Bermuda, Capri etc.	05	
Unit -8	Prepare draft of Salwar & Churidar and its variations as per trend	04	
Unit -9	i. Grade single dart basic bodice block by nest method(two size up - one size down)	09	
	ii. Grade Basic skirt block by nest method (two size up - one size down)		
	iii. Grade men's formal/ casual shirt by nest method (two size up - one size down)		
	iv. Grade men's trouser by nest method (two size up - one size down)		
Unit -10	Prepare Contour fit block from bodice block	01	
	Prepare Contour fit sleeve block	01	
	Prepare Contour fit variation of bodice block	01	
	Prepare Contour fit variation of sleeve block	01	
	Design corsets.	01	
	Design halter neck garment.	01	
	Designing of empire line garment.	01	
	Designing of evening gown / dress.	01	
	Construct any one contour garment from the above variation.	04	
Unit -11	Construct 3 dart blouses by drafting method for test fit.	02	
	Design designer blouses with princess line.	01	
	Design designer blouses with halter neck.	01	
	Design designer blouses with strapless.	01	
	Designing of designer blouses with choli style.	01	
	Construct any one Choli-blouse/ princess line/ blouse variation as per current trend and its test fit. (prepare any one garment from the above variation)	04	
Total		75	

EMBROIDERY TECHNOLOGY LAB

Subject Code 2042507	Practical			No. of Period in one session : 50			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)			
	—	—	04	External (ESE)			

CONTENTS :PRACTICAL

UNIT	List of Experiment	Hrs	Marks
Unit-1	<p>Prepare samples of following Indian embroidery on 8”/8” fabric. The size of the design should be 4”/4”. Study of historical background motifs, colours & materials used. Also prepare a report indicating fabric used, type and size of needle, type of thread and amount of all the material consumed.</p> <p>1.1 Kashmiri 1.2 Phulkari 1.3 Chamba 1.4 Chikankari 1.5 Kantha 1.6 Manipuri 1.7 Kutch 1.8 Kathiawari 1.9 Kasuti (Dharwadi) 1.10 Applique Patch work</p>	18	
Unit-2	Study of ornamental Techniques- Eyelet work, Lace work, Cutwork, Patchwork, Bead work, Sequins work.	10	
Unit-3	Study of design transfer techniques.	03	
Unit-4	Study of computerized embroidery machines threads, needles, frames and fabric for embroidery.	03	
Unit-5	Develop the design in computerized embroidery machines-alphabetical design.	03	
Unit-6	Develop the design in computerized embroidery machines-creative design.	03	
Unit-7	Collect the samples and images on each type of embroidery and make a scrap book.	04	
Unit-8	Design a product with any one Traditional Embroidery	06	
	Total	50	

NEEDLE CRAFT LAB

Subject Code 2042508	Practical			No of Period in one session : 56			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)	:	15	
	—	—	04	External (ESE)	:	35	

RATIONALE: This course helps in development of skills related to application of appropriate needlework technique and traditional stitch technique as per the requirement of the garment design. It is useful for the students for embellishing the fabric in garment industry. This knowledge is useful for preparing fashioned garments.

Objectives: Students will be able to:

- i. Prepare the samples using appropriate type of basic stitch technique.

CONTENTS :PRACTICAL

UNIT	List of Experiment	Hrs	Marks
Unit-1	Create five motifs and repeats patterns for field & borders, make Khakha of these patterns Create a sample of net Embroidery Create a sample of Draw Thread Work with various techniques Create a sample of Faggoting with various Techniques	16	
Unit-2	i. Create a Sample of Ribbon work of 8"x8" ii. Create a Sample of Computerized Embroidery iii. Create a Sample of Ari work of 8"x8" iv. Create a Sample of Bead Work 4"x4" v. Create five samples on Explorations of stitches learned in Indian embroidery with material explorations (fabrics, threads, beads, sequins, mirrors, needles)	16	
Unit-3	Prepare following sample of crochet (4"/4" size). i. Circle ii. Triangle iii. Square iv. Decorative (Flower/ leaf/ button/spring)	12	
Unit-4	i. Latch Rug Making	06	
Unit-5	Prepare the following (Any One) ii. Crochet lace.(Size 6") iii Rug Samples	06	
	Total	56	

INPLANT TRAINING & VISIT TO WORK-TW

Subject Code 2042509	Term Work			No of Period in one session :			Credits 02
	No. of Periods Per Week			Full Marks			
	L	T	P/S	Internal (PA)			
	—	—	4 Weeks continuous	External (ESE)			
				:		50	
				:		15	
				:		35	

Rationale: In-Plant training will provide an industrial exposure to the students as well as to develop their career in the high- tech industrial requirements. It will enrich the practical knowledge of the students.

Objectives: Students will be able to:

1. To achieve a practical knowledge for promotion of some students to imbibe self confidence.
Stress has been given to develop the skill.
2. To gain the knowledge about recent or latest manufacturing principles.
3. To achieve knowledge of recent problems and its remedies.

CONTENTS : TERM WORK

List of Term Work		Hrs	Marks
Unit-1	<u>FIRST WEEK</u>		
	- Visit to garment manufacturing industry.		
	- Study of the organization with organise of cloth or used clothes like garment.		
	- Garment tools & methods of its use.		
Unit-2	<u>SECOND WEEK</u>		
	- Layout of the plant		
	- Study of the process and preparation of flow chart.		
Unit-3	<u>THIRD WEEK</u>		
	- Make the list of Machines		
	- Name of manufacturers of the equipment		
Unit-4	<u>FOURTH WEEK</u>		
	- Preparation cost, Running cost & Standard cost.		

COURSE UNDER MOOCS /SWAYAM/ OTHERS

Subject Code 2042510	Term Work			No of Period in one session :			Credits
	No. of Periods Per Week			Full Marks	:	50	
	L	T	P/S	Internal (PA)	:	15	01
	—	—	02	External (ESE)	:	35	