

REVISED DIPLOMA CURRICULUM OF COSTUME DESIGN & GARMENT TECHNOLOGY (PART-II)

**For the State of Meghalaya
(2024-2025)**



**National Institute of Technical Teachers' Training & Research
Block – FC, Sector – III, Salt Lake City, Kolkata – 700 106**

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Prog. Name: Costume Design & Garment Technology**SEMESTER III**

SL. No	Category of Course	Code No	Course Title	Study Scheme			Evaluation Scheme								Total Marks	Credits	
				Pre-requisite	Contact Hours/ week			Theory				Practical					
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment				
									Class Test	Assignment	Attendance		Sessional	Viva voce			
1	Program Core	CGTPC201	Textiles printing & dyeing		3	0	0	60	20	15	5				100	3	
2		CGTPC203	Apparel manufacturing technology		2	0	0	60	20	15	5	-	-	-	100	2	
3		CGTPC205	Textiles printing & dyeing lab		0	0	2	-	-	-	-	40	40	20	100	1	
4		CGTPC207	Apparel manufacturing technology lab		0	0	2	-	-	-	-	40	40	20	100	1	
5		CGTPC209	Fashion illustration and forecasting lab		0	0	4	-	-	-	-	40	40	20	100	2	
6		CGTPC211	Pattern making lab II	CGTPC 109	0	0	6	-	-	-	-	40	40	20	100	3	
7		CGTPC213	Garment Construction II lab	CGTPC 111	0	0	6	-	-	-	-	40	40	20	100	3	
8	Humanities & Social Science	CGTHS201	Principles of Management		3	0	0	60	20	15	5	-	-	-	100	3	
9	Internship	I-201	Internship-I		0	0	4	-	-	-	-	40	40	20	100	2	
TOTAL					8	0	24	180	60	45	15	240	240	120	900	20	

Prog. Name: Costume Design & Garment Technology

SEMESTER IV

SL. No	Category of Course	Code No.	Course Title	Study Scheme			Evaluation Scheme								Total Marks	Credits
				Pre-requisite	Contact Hours/ week			Theory			Practical					
					L	T	P	End Exam	Progressive Assessment			End Exam	Progressive Assessment			
									Class Test	Assignment	Attendance		Sessional	Viva voce		
1	Program Core	CGTPC202	Costing Of Apparel Product		2	0	0	60	20	15	5	-	-	-	100	2
2		CGTPC204	Export-Import Management		3	0	0	60	20	15	5	-	-	-	100	3
3		CGTPC206	Apparel Marketing And Merchandising		3	0	0	60	20	15	5	-	-	-	100	3
4		CGTPC208	Costing Of Apparel Product Lab		0	0	2	-	-	-	-	40	40	20	100	1
5		CGTPC210	Ornamentation Techniques Lab		0	0	4	-	-	-	-	40	40	20	100	2
6		CGTPC212	Pattern Making and Grading Lab	CGTPC 110	0	0	6	-	-	-	-	40	40	20	100	3
7		CGTPC214	Garment Construction III Lab	CGTPC 213	0	0	6	-	-	-	-	40	40	20	100	3
8	Minor project	CGTPR202	Minor project		0	0	4	-	-	-	-	40	40	20	100	2
9	Program Elective Any One	CGTPE202	Program Elective: A. Traditional Embroidery B. Basic Fashion Photography C. Kids Garments		0	0	4	-	-	-	-	40	40	20	100	2
10	Mandatory	AU202	Essence of Indian Knowledge & Tradition		2	0	0	0	0	0	0	0	0	0	0	0
TOTAL					10	0	26	180	60	45	15	240	240	120	900	21

SEMESTER - III

TEXTILES PRINTING & DYEING

L T P
3 0 0

Course Code No.: CGTPC201

Total Contact hrs.:

Theory: 45 hrs.

Tutorial: 0 hr.

Practical: 0 hr.

Credit: 3

Total marks: 100

Theory: 100

End Term Exam: 60

P.A.: 40

Rationale: Students will learn how dyeing and printing add value to fabrics, yarns, and fibres. It is need-based, technical and application-oriented.

Course Outcomes:

After completion of the course, students will be able to

- Demonstrate the knowledge of colour concepts, and preparation of fabric for dyeing & printing.
- Explain the theory of dyeing concerning various classes of dyes
- Discuss the application of various dyes and properties related to them.
- Describe different printing methods and respective technical advantages.
- Demonstrate technical competency in printing with different dyes on different fabrics.

Course Content Details

Theory	
UNIT – I	9
<ul style="list-style-type: none"> • Preparation of fabric for dyeing and printing <ul style="list-style-type: none"> - Scouring, bleaching, desizing - Reagents used and their application - Specific preparatory steps for cotton, wool, silk and man-made fibres - Equipment used for yarn, fabric and piece goods at cottage and industrial levels. • Dyes <ul style="list-style-type: none"> - Classification, definition, components. - Colour and chemical constitution of dyes, C.I generic number. - Dyeing with chemical dyes. - Direct, reactive, vat, sulphur, azo (for cellulosic). - Acid, metal complex, chrome mordant (for proteins). - Basic, disperse (for man-made). • Dyeing auxiliaries 	
UNIT – II	9
<ul style="list-style-type: none"> • Dyeing with Natural dyes <ul style="list-style-type: none"> - Use of pigments • Dyeing machines for fibre, yarn and fibres. <ul style="list-style-type: none"> - Industrial dyeing practices. - Dyeing of blends. • Textile design through dyeing <ul style="list-style-type: none"> - Tie and Dye - Batik - Level & Cross dyeing • Dyeing defects and remedies. 	

<ul style="list-style-type: none"> • Advances in dyes & dyeing technology 	
Theory	
UNIT – III	9
<ul style="list-style-type: none"> • Introduction to printing – the difference between dyeing and printing. • Methods of printing: <ul style="list-style-type: none"> - Historical development of printing methods – block, stencil, screen roller and rotary screens used at the cottage and industrial level. - Printing pastes – thickening agents and auxiliaries for printing and their suitability to various classes of dyes and fibres. Preparation of printing pastes for different dyes and different fibres. 	
UNIT – IV	9
<ul style="list-style-type: none"> • Styles of Printing <ul style="list-style-type: none"> - Direct style, resist or resource style, discharge style and raised style - Styles and methods of printing are traditionally used in India. • Special Printing Procedures <ul style="list-style-type: none"> - Polychromatic dyeing, transfer printing, carpet printing, flock printing. • Finishing and after-treatment of printed goods at the cottage and industrial levels. • Advances in printing technology 	

References:

1. Shenai (1987), Chemistry of Dyes and Principles of Dyeing Sevak Prakashan, Mumbai.
2. H. A. Lubs, Robert E. The Chemistry of Synthetic Dyes and Pigments, Krieger Publishing Company, New York.
3. V. A. Shenai (1999), Azo Dyes – Facts and Figures – Sevak Prakashan, Mumbai.
4. R. S. Prayag, Technology Textile Printing – Noyes Data Corporation.
5. V.A. Shenai (1977), Technology of Printing – Technology of Textile Processing, Vol. IV, Sevak Publication.
6. M.L. Gulrajani and Deepti Gupta (1990), Natural dyes and their Application to Textiles, ed. I.T.I. Delhi Publications.
7. John and Margaret Cannow (1994), Dye Plants and Dyeing, The Herbert Press (UK).
8. ASTM and ISI Standards.
9. K. Venkatrama (1970), Chemistry of Synthetic Dyes, Part I and II

APPAREL MANUFACTURING TECHNOLOGY

L T P
2 0 0

Course Code No.: CGTPC203

Total Contact hrs.:

Theory: 30 hrs.

Tutorial: 0 hr.

Practical: 0 hr.

Credit: 2

Total marks: 100

Theory: 100

End Term Exam: 60

P.A.: 40

Rationale: The objective of the course is to present the scope, functions and responsibility of production control as it relates to the apparel industry. It also describes the techniques and procedures used to achieve production control objectives.

Course Outcomes:

After completion of the course, students will be able to

- Discuss Indian garment industry and its various processes.
- Explain various types of commercial fabrics, trims and accessories used in garment manufacturing and their inspection methods.
- Illustrate marker planning, fabric spreading and cutting, and other pre-sewing steps.
- Explain various types of stitches, seams, sewing defects, sewing threads and needles used in garment manufacturing.
- Identify commonly used industrial sewing and finishing machines, apparel production systems and industrial engineering concepts.

Course Content Details

Theory	
1) Introduction to the Indian garment industry, an overview of garment manufacturing processes, understanding of body measurements - Men's and Ladies' Wear, familiarization with pattern-making terminology.	9
2) Understanding of commercial woven and knitted fabrics, defects in fabrics due to weaving, knitting, and chemical processing, fabric inspection systems and feedback process; types of trims and accessories used in garment manufacturing.	9
3) Introduction to marker planning, the efficiency of marker planning, methods of marker planning and marker use, fabric spreading and its requirements, spreading methods, fabric packages, the objective of cuttings, methods of cutting, fusing, welding & moulding techniques, ticketing and bundling processes.	9
4) Introduction to stitches and seams, methods of stitch formation, stitch and seam classification, stitch and seam defects, types of sewing needles and sewing thread, calculation of sewing thread consumption	9
5) Classification of industrial sewing machines, knowledge of commonly used sewing machines in the garment industry, their major parts and functions, Seam sealing machine for PPE Kits, pressing and finishing machinery, assembly-line production system; time and method study, line balancing concept, Acceptable quality level.	9

References:

1. Pattern Making for Fashion Design by Helen J. Armstrong
2. Commercial Fabrics by Akshay Tholia
3. Technology of Clothing Manufacture By Barbara Carr and Harold Latham
4. Garment Manufacturing: Processes, Practices and Technology by Prasanta Sarkar

TEXTILES PRINTING & DYEING LAB

L T P
0 0 2

Course Code No.: CGTPC205

Total Contact hrs.:

Theory: 0 hrs.

Tutorial: 0 hr.

Practical: 30 hr.

Credit: 1

Total marks: 100

Practical: 100

End Term Exam: 40

P.A.: 60

Rationale: The course aims at providing knowledge to the students regarding dyeing, printing and knowledge of chemicals and auxiliaries used for dyeing and printing.

Course Outcomes:

After completion of the course, students will be able to

- Prepare fabric before dyeing and printing
- Make blocks, screens and stencils used for fabric printings.
- Demonstrate the skills in dyeing and printing of textiles.
- Apply various types of printings on garments and other products.

Course Content Details

Practical
<ul style="list-style-type: none"> • Preparation of fabric for dyeing and printing: <ul style="list-style-type: none"> - Scouring - Bleaching - Desizing at cottage level. • Dyeing of natural and synthetic fabrics with different dyes, and shade matching. • Creating designs on fabrics through various dyeing processes <ul style="list-style-type: none"> - Tie & Dye - Batik • Developing designs for block, stencil, screen printing and hand painting. (Sheet work). • Printing – preparation of screens and stencils for printing. <ul style="list-style-type: none"> - Making samples with stencil, block, screen printings and hand painting on cotton. - Make one article either of a block, stencil, screen and hand painting

References:

1. Fabric Science - J. J. Pizzuto, Fair Child Publication, New York, 1990
2. Chemistry of dyes & principles of dyeing, Vol. I & II, Dr M. A. Shenai, Sevak Publications, 1993
3. Introduction to Textile Finishing - J. T. Marsh, Chapman & Hall, London, 1966
4. Technology and Management of Printing – N.S. Saraiya, & P.C. Gupta
5. The Arts and Crafts Stencil Book - Mary Mac Carthy,
6. Stenciling - Candle Frankel
7. Textile Colouring - M. G. Mahadevan

APPAREL MANUFACTURING TECHNOLOGY LAB

L T P
0 0 2

Course Code No.: CGTPC207

Total Contact hrs.:

Theory: 0 hrs.

Tutorial: 0 hr.

Practical: 30 hrs.

Credit: 1

Total marks: 100

Practical: 100

End Term Exam: 40

P.A.: 60

Rationale: To enable students to, understand the garment machinery.

Course Outcomes:

After completion of the course, students will be able to

- Demonstrate the mechanism
- Arrange machine settings as per need
- Produce samples from various garment machinery

Course Content Details

Practical
Performing a study of, <ul style="list-style-type: none"> • A Single-Needle Lock Stitch machine for its parts and various settings points and threading; preparing stitch samples by using various folders and calculating the SPI for specified/chosen stitch lengths • A Double-Needle Lock Stitch machine for its parts, various settings points and threading; preparing stitch samples and calculating the SPI for given stitch lengths • An Over-lock machine for its parts, various settings points and threading; preparing stitch samples • An Over-lock machine for making adjustments of the needle-thread and looper thread tension, feed-ratio, needle-and-looper setting and knife set • A Flat-lock machine for its parts, various settings points and threading; preparing stitch samples • A Flat-lock machine for making adjustments of the needle-thread and looper-thread tensions, feed-ratio, needle-and-looper setting and spreader setting • A Button-holing machine for its parts, various settings points and threading and preparing samples • A Feed-off-the-arm machine for its parts, various settings points and threading and prepare stitch samples

Lab equipment for a batch of 30 Students

Single needle lock stitch machine - 15 Nos.

Double-needle lockstitch machine - 2 Nos.

Flat lock machine with elastic attachment - 1 No.

Feed off the arm machine - 1 No.

Overlock machine - 2 Nos.

Button holing & button attachment machine - 1 each

FASHION ILLUSTRATION AND FORECASTING LAB

L T P
0 0 4

Course Code No.: CGTPC209

Total Contact hrs.:

Theory: 0 hrs.

Tutorial: 0 hr.

Practical: 60 hr.

Credit: 2

Total marks: 100

Practical: 100

End Term Exam: 40

P.A.: 60

Rationale: In this subject, students will practice illustration of different types of costume, and prints their effects. They will also illustrate draped dresses with different types of figures and dresses using colour crayons etc. explaining compositional forms and their importance.

Course Outcomes:

After completion of the course, students will be able to

- Assess the current scenario in fashion forecasting and the movement of fashion on local and global levels.
- Identify a trend (through trend research and forecasting) and recognize its movement in local markets as affected by the global market.
- Create theme-relevant boards which are essential to the design process
- Demonstrate skills in hand art to express ideas on sheets through mind mapping and visual research
- Perform independent research on a small scale and apply them to the design project

Course Content Details

Theory	Practical
<ul style="list-style-type: none"> • What makes a good designer? <ul style="list-style-type: none"> - Principles of design - Effects of style line, placement of the waistline, shape of silhouette etc. • Feature illustration • Storyboard inspiration • Sources of inspiration for designer • Fashion forecasting • Catwalk sketches 	<p>Illustration of Fashion, Fester and Advertising :</p> <ul style="list-style-type: none"> • Rendering of different types of prints when draped into dresses • Different types of texture are used in the illustration of different fashion garments • Different Dresses, using different mediums (coloured pencils, crayons, waterproof inks, poster colours etc.) • Costume life daring • Collage full page picture strong in brut composition and subject matter • The concept and mood worked on in a storyboard • Theme to be developed and details to be recorded • Different types of inspiration, sheets environment, sea, nature, festival • Make an infinite number of styles and techniques • Predicting the trend at least two years ahead of the market. So that an illustrator can represent the coming looks • Quick sketching & Draping

References:

1. Fashion Forecasting – Rita Perna
2. Fashion Illustration Today – N. A. Drake

PATTERN MAKING LAB II

L T P
0 0 6

Course Code No.: CGTPC211

Total Contact hrs.:

Theory: 0 hrs.

Tutorial: 0 hr.

Practical: 90 hr.

Prerequisite: CGTPC109

Credit: 3

Total marks: 100

Practical: 100

End Term Exam: 40

P.A.: 60

Rationale: To provide advanced knowledge of pattern making regarding industrial problems relating to pattern checking, fitting and fall of a garment.

Course Outcomes:

After completion of the course, students will be able to

- Develop patterns for adults.
- Discuss the importance of darts and their uses.
- Develop commercial paper patterns to meet industry standards.
- Explain the development and use of commercial paper patterns.
- Demonstrate knowledge of different style lines.

Course Content Details

Practical
1. Preparation of the basic pattern for the following : <ul style="list-style-type: none"> - Female bodice block and sleeve block - Basic skirt block, pegged skirt, gored skirt
2. Adaptation of the following sleeves : <ul style="list-style-type: none"> - Set in sleeves: leg- o- mutton, lantern, cowl, dolman, bishop - Extended bodice: Kimono and Drop shoulder Part bodice in sleeves: raglan
3. Adaptation of the following collars: <ul style="list-style-type: none"> - Stand and fall, mandarin, convertible, shawl, cowl
4. Dart manipulation by : <ul style="list-style-type: none"> - Slash and spread method - Pivot method
5. Dart manipulation into : <ul style="list-style-type: none"> - Single dart series, two dart series, multiple dart series, princess and empire line, yokes
6. Introduction to draping : <ul style="list-style-type: none"> - Basic block front and back - Skirt front and back
<ul style="list-style-type: none"> - Bodice variation - princess line, cowl neckline
7. Developing theme-based industrial paper pattern : <ul style="list-style-type: none"> - Salwar kameez, trousers

References:

1. Pattern making & cutting - Martin M Shoben & Javet P. Ward – Butterworth Heinemann, Oxford
2. Pattern making by Armstrong – Harper Collin S, Los Angeles, USA
3. Basic Process and Clothing Construction Shree Doongaji and Roshani Desh Pande
Publisher Unique Education Books, Raj Parkashan, New Delhi.
4. Garment Construction Skills Mulhak Premlata Sewing Techniques, ADK Publishing Books, New York 1996
5. The Art Of Sewing Thomas, Anna, Jacob UBSPD Publishers Distributors Ltd, New Delhi

GARMENT CONSTRUCTION II LAB

L T P
0 0 6

Course Code No.: CGTPC213

Total Contact hrs.:

Theory: 0 hrs.

Tutorial: 0 hr.

Practical: 90 hr.

Prerequisite: CGTPC111

Credit: 3

Total marks: 100

Practical: 100

End Term Exam: 40

P.A.: 60

Rationale: To impart knowledge about various construction techniques, applying these techniques in garment construction

Course Outcomes:

After completion of the course, students will be able to

- Create basic garments.
- Create new designs with basic garments and use them in making designer costumes
- Create adult garments using techniques learned.
- Demonstrate the understanding of different stitching techniques for garments.
- Make adult upper and lower garments.

Course Content Details

Practical
<ul style="list-style-type: none"> • Developing various grading both manual method & computerized modes • Introduction to apparel grading for bodices, sleeves, collars, skirts, pants • Develop Pattern making for knits : <ul style="list-style-type: none"> - Shirt, bodice, sleeve, trousers, polo shirt (drafting & construction) • Introduction to fitted garments / contoured garments • Developing fitted dress block : <ul style="list-style-type: none"> - Strapless evening bodice - Halter neckline - Lingerie-wear • Developing Jackets – waistcoat (drafting and construction)

References:

1. Pattern making & cutting - Martin M Shoben & Javet P. Ward – Butterworth Heinemann, Oxford
2. Pattern making by Armstrong – Harper Collin S, Los Angeles, USA
3. Basic Process and Clothing Construction Shree Doongaji and Roshani Desh Pande
Publisher Unique Education Books, Raj Parkashan, New Delhi.
4. Garment Construction Skills, Mulhak Premlata, Sewing Techniques, ADK Publishing Books, New York 1996
5. The Art of Sewing Thomas, Anna, Jacob, UBSPD Publishers Distributors Ltd, New Delhi

PRINCIPLES OF MANAGEMENT

L	T	P
3	0	0

Course Code No.: CGTHS201

Total Contact hrs.:

Theory: 45 hrs.

Tutorial: 0 hr.

Practical : 0 hr.

Credit: 3

Total marks: 100

Theory: 100

End Term Exam: 60

P.A.: 40

Rationale: The objective of this course is to acquaint the participants with business organizations and to familiarize them with basic management concepts and processes with special reference to the Apparel Industry.

Course Outcomes:

After completion of the course, students will be able to

- Explain various management concepts such as planning, organizing, implementing, staffing, coordinating, controlling, motivating and Managerial Grid
- Identify the human skills and conceptual skills as per industry requirements about basic management skills.
- Diagnose various styles and qualities of efficient leadership, Coordination, Controlling, Green Management and Corporate Social Responsibility
- Integrate management principles into management practices.
- Specify managerial tasks of planning, organizing, and controlling executed in a variety of circumstances.

Course Content Details

Theory	Practical
<p>Conceptualization & explanations</p> <ul style="list-style-type: none"> • Organizing Business : <ul style="list-style-type: none"> - Organization- types & objectives - Role of management - Functions and processes - Managerial levels & skills - Planning, organizing, staffing, etc. • Approach to management: Theory of leadership <ul style="list-style-type: none"> - Motivation & employee communications - Decision making concepts - Responsibility, authority and delegation • Accounting & finance function of management : <ul style="list-style-type: none"> - Accounting for managerial decision-making, etc. - Basic financial statements - Capital structures - The industrial process of wage calculation, time & piece wages, equipment wage structure 	<p>Assignments based on the factual reality of the Apparel Industry.</p>

<ul style="list-style-type: none"> • Human resource management functions : <ul style="list-style-type: none"> - Manpower planning - Job analysis, job description & evaluation - Selection, employee remuneration - Training and development of personnel 	
Theory	Practical
<ul style="list-style-type: none"> • Marketing Management: Definition & concepts <ul style="list-style-type: none"> - Product, price and packaging • Operations management: <ul style="list-style-type: none"> - Purchasing & materials management - Layout planning - Production planning & control, etc. • Conceptualization of Information Systems <ul style="list-style-type: none"> - Introduction & Characteristics - Decision making - Management information systems, etc. - Industrial relation: Importance of harmonious industrial relation system - Legal frame, acts & legislations, growth of trade unions - Handling of grievances - Factory acts 	<p>Assignments based on the factual reality of the Apparel Industry.</p>

References:

1. Management - Koontz, A., Donnell, C. & Weihrich, H, Mc Graw Hill Intl., Tokyo
2. Managers Guide to Accounting & Finance - Chandra, Prasanna, Tata Mc Graw Hill, New Delhi.
3. Personnel Management - Morappa, A. & Saiya Dain, M.S., Tata Mc Graw Hill, New Delhi.
4. Personnel Management – Margaret Attwood, Macmillan Education Ltd., London
5. Personnel Management & Industrial Relations – P. Kumar, Kedarnath Ramnath & Co., Meerut

INTERNSHIP I

L 0	T 0	P 4		Course Code No.: I-201
Total Contact hrs.: Credit: 2			Total Marks: 100	Evaluation Scheme: End Term Exam: 40 P.A.: 60

RATIONALE:

Internship provides an in-depth knowledge on engineering students. This internship enables the students to understand and learn the current trend in the job market. Internship provides great opportunity to get real life experience and exposure.

Students will be exposed to structured and practical learning experience that prepares individuals for their future careers, helps them make informed career choices, and equips them to build their profile for their jobs and also for their higher studies.

INTERNSHIP PROTOCOL:

As per AICTE guideline the Institutes have the flexibility to schedule internship/ Project work/ Seminar etc. according to the availability of the opportunities. Students are required to be involved in Inter/ Intra Institutional Activities viz.,

- Training with higher Institutions;
- Soft skill training organized by **Training and Placement Cell of the respective institutions;**
- Contribution at incubation/ innovation /entrepreneurship cell of the institute;
- Participation in conferences/ workshops/ competitions etc.;
- Learning at Departmental Lab/ Idea Lab/ Institutional workshop;
- Working for consultancy/ research project within the institutes and
- Participation in all the activities of Institute's Innovation Council for eg: IPR workshop/Leadership Talks/ Idea/ Design/ Innovation/ Business Completion/ Technical Expos etc.

SEMESTER - IV

COSTING OF APPAREL PRODUCT

L T P
2 0 0

Course Code No.: CGTPC202

Total Contact hrs.:

Total marks: 100

Theory:

Theory: 30 hrs.

End Term Exam: 60

Tutorial: 0 hr.

P.A.: 40

Practical: 0 hr.

Credit: 2

Rationale: To familiarise students with different costing techniques of yarn, fabric and garment

Course Outcomes:

After completion of the course, the students will be able to:

- Explain the Cost accounting and Cost elements.
- Explain the Cost elements involved in fabric and apparel Costing.
- Ascertain apparel product standard that maximizes quality and balancing cost.
- Analyze the principles of Costing the Garments.
- Estimate the costs of the raw materials and accessories, knitting fabrics, processing and finishing of fabrics, sewing, and packing of garments, transport, and conveyance, shipping, overheads, banking charges and commissions

Course Content Details

Theory
<p>1. General cost concept: classification of cost (fixed, variable, semi-variable and total cost), cost elements (direct, indirect), planning and storage of materials, pricing and control of materials, computation and control of labour cost, remuneration and incentives to labour. Overhead costs: classification and accumulation, allocating service department costs, distribution and absorption, marketing and administration, depreciation and miscellaneous.</p> <p>2. Methods of costing: single or output costing, job order cost system, and other methods of costing. Cost control techniques: standard costing, variance analysis (materials and labour, overheads, sales and marketing). Cost control and cost reduction.</p> <p>3. Costing in the textile industry: cost structure, raw material cost, labour cost and other expenses. Yarn realization, determination of cost per kg of yarn, per meter of fabric. Cost of dyeing/printing per meter fabric. Value loss, selling price decision of fabric. Costing in the apparel industry: raw material cost, labour cost and other expenses. Cost analysis of different garments with example.</p> <p>4. Dollar planning and control: introduction, responsibilities for a dollar plan, requirements of a dollar plan, approach to a dollar plan, elements of the dollar plan (planned sales, planned stock – stock turnover, stock/sales ratio. The relationship between stock turnover and stock/sales ratio). Retail inventory method- advantages, applications, the dollar plan in action. A control system, controls and fashion consideration.</p>

References:

1. Fashion for Profit: From Design Concept to Apparel Manufacturing.- By Frances Harder.
2. Apparel Manufacturing: Sewn Product Analysis, 4/E By Glock Ruth E., Glock
3. Costing for the Fashion Industry By Michael Jeffrey, Nathalie Evans
4. Instructions to the teacher: Field trip to a dyeing and printing unit will be taken.

EXPORT-IMPORT MANAGEMENT

L T P
3 0 0

Course Code No.: CGTPC204

Total Contact hrs.:

Theory: 45 hrs.

Tutorial: 0 hr.

Practical: 0 hr.

Credit: 3

Total marks: 100

Theory:

End Term Exam: 60

P.A.: 40

Rationale:

The Course provides information about the export-import policies and procedures specific to the garment industry. It includes pre as well as post-shipping documents, Export Import policies, credit facilities to the exporters, insurance schemes, etc.

Course Outcomes:

After completion of the course, students will be able to

- List the export documents in the garment industry.
- Explain the export procedure.
- Prepare documents for garment and textile exports.
- Examine quality inspection procedures in the garment and textile industry

Course Content Details

Theory	Practical
<ul style="list-style-type: none"> • GATT about the agreements. (2 hrs.) • MFA and Bilateral textile agreements signed by India. (3 hrs.) • Govt. of India's export entitlement policy on garment exports. (2 hrs.) • AEPC 's role in the administration of export entitlement policy. (3 hrs.) • Export promotional activities of AEPC. (3 hrs.) • Facilities that are available for garment exporters. (12 hrs.) <ul style="list-style-type: none"> - Cash compensatory support, Duty drawback, Export finance through banks, Free trade zones & Economic, Trade zones, Export-import banks - 100 % EOU Scheme of GOI, Export Credit Guarantee Corporation. • How to start a Garment exporting Co. (10 hrs.) <ul style="list-style-type: none"> - Know how, Export contracts, Documents connected with Exports, Exchange control relating to exports. • International Marketing (10 hrs.) <ul style="list-style-type: none"> - International Marketing System, Shipping and Air transportation system - E-Commerce, Customer satisfaction particulars • Theoretical concepts and information from AEPC & other sources are to be supplied in between. 	<p>Assignment :</p> <p>Prepare & Maintain a data bank on exports under different headings like material base or exporter base etc.</p>

References:

1. AEPC Hand Book on export data & documents (Yearwise Publications are available in the AEPC office)
2. Govt. of India notifications/ Gazettes & documental publications on EXIM Policy matters (Yearwise Publications are available in Commercial Library)
3. Website: www.texmin.nic.in

APPAREL MARKETING & MERCHANDISING

L T P
3 0 0

Course Code No.: CGTPC206

Total Contact hrs.:

Theory: 45 hrs.

Tutorial: 0 hr.

Practical: 0 hr.

Credit: 3

Total marks: 100

Theory:

End Term Exam: 60

P.A.: 40

Rationale: The objective of the course is to acquaint the participants with the concept of the apparel market and the growth of the same in this present competitive era.

Course Outcomes:

After completion of the course, the students will be able to

- Explain different kinds of marketing and merchandising techniques.
- Apply knowledge of various national and international stores and their marketing techniques
- Add marketing/selling in creative products.
- Demonstrate various selling techniques

Course Content Details

Theory	Practical
<ul style="list-style-type: none"> • Concepts & information on apparel marketing & its spectrum and growth with examples drawn from the apparel sector. (10 hrs.) <ul style="list-style-type: none"> - The place of marketing in apparel - Indian fashion marketing environment - The threat of change from basic to styled wear. - Criteria used by consumers in fashion selection - Consumers' identification with the fashion life cycle - Merchandising the fashion life cycle. • Survey of marketing: (5 hrs.) <ul style="list-style-type: none"> - Marketing concept & terminology - Types of marketing - Market segmentation - Fashion image & positioning. • Advertising(5 hrs.) <ul style="list-style-type: none"> - Utility - Process of advertising - Different mediums of advertisement - Fashion show • Channels view: (5 hrs.) <ul style="list-style-type: none"> - Fashion retailing - Types of retail operations - Single & multiple knits stores etc. • Theoretical conceptualisation & gathering information on international 	<ul style="list-style-type: none"> - Field survey & assignments - Website Browsing, field survey & assignments.

marketing (5 hrs.) - Strategic Perspective - Competitive Advantage - A Glimpse of Indian Apparel Export Strategies	
Theory	
<ul style="list-style-type: none"> • The theoretical concept with relevant case studies and examples on all the topics <ul style="list-style-type: none"> - The theoretical concept of merchandising (2 hrs.) - Place of merchandising in apparel. (2 hrs.) - The buyer's responsibility working with merchandise sourcing. (2 hrs.) - Organising buying/selling activity. (2 hrs.) - The resident buying office (2 hrs.) - Understanding consumer behaviour, and planning the merchandise assortment. (2 hrs.) - Selecting the merchandise assortment. (2 hrs.) - Merchandising (2 hrs.) - Manufacturing interface (2 hrs.) - Fashion advertising (2 hrs.) - Visual merchandising (2 hrs.) - Special events (international especially) (4 hrs.) - Product evaluation (2 hrs.) - Publicity etc. (2 hrs.) 	-

References

1. Essentials of Marketing - Jerome Mc Cartry
2. Effective Retailing - Golden Zimmerman.

COSTING OF APPAREL PRODUCT LAB

L	T	P
0	0	2

Course Code No.: CGTPC208

Total Contact hrs.:

Theory: 0 hrs.

Tutorial: 0 hr.

Practical: 30 hrs.

Credit: 1

Total marks: 100

Practical:

End Term Exam: 40

P.A.: 60

Rationale: The objective of this course is to make the participants understand all the elements that affect product costing in Apparel and respective measurement. The participants also learn to measure these elements accurately and obtain a true picture of profit opportunities and obstacles.

Course Outcomes:

After completion of the course, the students will be able to

- Describe apparel costing methods and techniques.
- Justify apparel pricing and budgeting process
- Determine pricing on apparel for domestic and international buyers
- Facilitate cost control
- Disclosure of points of wastage

Course Content Details

Practical
<p>Fabric Costing</p> <ul style="list-style-type: none"> - Identification of the parameters of the given fabric - Identify the various factors affecting fabric costs based on the industry norms <p>Fabric Consumption Calculation</p> <ul style="list-style-type: none"> - Marker Modes – Nap Either Way, Nap One Way and Nap Up and Down and its effects on fabric consumption. - Analyze and arrange marker layout to optimize material utilization. - Fabric Weight Expression and Conversions - Stages of Fabric Consumption Calculation - Compute estimated fabric consumption based on given specs and production drawings without the use of a marker. <p>Apparel Costing</p> <ul style="list-style-type: none"> - Estimate other additional process costs like embroidery, panel printing and wet processing cost according to the organizational procedure. <p style="text-align: center;">Compute the final apparel costs with Standard Minute Value (SMV)</p>

References:

1. Fashion for Profit: From Design Concept to Apparel Manufacturing .- By Frances Harder
2. Apparel Manufacturing: Sewn Product Analysis, 4/E By Glock Ruth E., Glock
3. Costing for the Fashion Industry By Michael Jeffrey, Nathalie Evans
4. Instructions to the teacher: Field trip to a dyeing and printing unit will be taken.

ORNAMENTATION TECHNIQUES LAB

L T P
0 0 4

Course Code No.: CGTPC210

Total Contact hrs:

Theory:0 hr.
Tutorial:0 hr.
Practical: 60 hrs.

Credit: 2

Total marks: 100

Practical:

End-Term Exam:40
P.A.: 60

Rationale: This course will enable the learners to understand the different types of textile and surface ornamentation designs and techniques and to use them effectively and design the garments. The course also includes various methods of surface ornamentation and the selection of appropriate methods of ornamentation for a specific product or fabric.

Course Outcomes:

After completion of the course, the students will be able to

- Describe different types of textile and surface ornamentation designs and techniques
- Use types of textile and surface ornamentation designs and techniques effectively
- Apply the knowledge learnt to design the garments
- Select appropriate methods of ornamentation for a specific product or fabric

Course Content Details

Theory	Practical
<p>FAMILIES OF TEXTILE DESIGN Floral, Geometric, Conversational/Traditional, Ethnic</p> <p>REPEAT AND ITS TYPES Directional, Non-Directional, One way, Two way, All over, Half Drop Vertical, Half-Drop Horizontal.</p>	<p>6 L</p>
<p>TOOLS AND TECHNIQUES - Design transfer materials, - Sources & Interpretation - Choosing colour - Enlarging and reducing design</p>	<p>6 L</p>
<p>EMBROIDERY Outline stitches, Border stitches, Variation of cross stitches Composite band stitches, Types of isolated stitches Open-filling stitches, Solid filling stitches Insertion stitches, Edging stitches, Cut and drawn stitches Ribbon embroidery</p>	<p>6 L</p>
<p>Introduction to Traditional Indian Textiles: embroidered and embellished. Kantha, Sujani, Phulkari, Chamba Rumals, Kashmir Shawls, Zalakdozi. Chickankari, Zardozi, Lambadi, Kasuti,</p>	<p>10 L</p>

Creative explorations and contemporisation of Chamba, Kashida and Kasuti. Make samples of size 6"x 6". Written and scrapbook of all the traditional embroideries, based on designer's collections	12L
Gujarat Rajasthan, Orissa (Practical – mirror, beads, appliqué, patch & quilting)	12L
Product development /swatch development for a fashion collection, create samples of size 6"x 6" (5-7 swatches)	10L

SUGGESTED IMPLEMENTATION STRATEGIES

- Lecture, demonstration, practical exercises, and interactive Sessions
- Practical explorations

PRACTICAL:

Suggested list of assignments/activities:

Assignment 1	Create 4 samples of size 6"x 6" using the Design development for the following embroidery toward innovative fashion product with specification - Kantha, Phulkari, Chikankari, zardozi
Assignment 2	Design development for 2 samples of Appliqué and/or Patchwork combined with quilting and bead or mirror work embroidery towards innovative fashion product with specifications create samples of size 10"x 10" (MM 10)
Evaluation parameter	- Understanding of various techniques, materials & processes - Creative Explorations - Assessment of skill - Appropriate usage of the technique according to the material used - Co-relation of material and technology to innovation in product development - Attendance - Neatness
Learning outcome	- Perceiving areas for design interaction, appreciation and innovation. - Awareness and understanding of handcrafted processes & materials. - Perceiving areas for design interaction, appreciation and innovation. - The students should be able to create embroidered surfaces for any kind of collection, based on trend forecasts.

Students should maintain a record of having at least one sample of each stitch/design based on stitches or any of the surface decoration techniques.

Reference Books:

1. Textile Design - Susan Meller & Joost Q. Elffers
2. Encyclopedia of embroidery stitches including crewel - Marion Nicholas
3. Quilter's workbook - Pam Lonttot & Rosemary
4. Batik designs - Sigrid W. Weltge
5. Silk Shading - Clare Hanlam-Search Press Needlecraft
6. A Perfect Word in Ribbon Embroidery Stumpwork - Di Van Niekerk Search Press
7. Collins Complete Guide to Photography Michael Freeman, Harper Collins Publishers
8. The Encyclopedia of Stitches - Karen Hemingway-New Holland
9. Indi- Folk and Tribal Design of India - M.S.Lehri, Superbook house
10. Drawn fabric embroidery - Elna Wark B.T.Batsford Ltd.
11. The Art of Fabric Collage - Rosemary Eichorn, The Taunto
12. The Techniques of Indian Embroidery - Anne Morrill B.T.

PATTERN MAKING AND GRADING LAB

L T P
0 0 6

Course Code No.: CGTPC212

Total Contact hrs.:

Theory: 0 hr.

Tutorial: 0 hr.

Practical: 90 hrs.

Prerequisite: CGTPC110

Credit: 3

Total marks: 100

Practical:

End Term Exam: 40

P.A.: 60

Rationale: To provide advanced knowledge of pattern making regarding industrial problems relating to pattern checking, fitting and fall of a garment.

Course Outcome:

After completion of the course, the students will be able to

- Develop the capability and skills of creating patterns for designer wear with darts manipulation techniques
- Develop and allows students to create different sized patterns for for the original pattern by grading both manual and computerized made
- Pattern grading will allow designer to produce garments for people of all body types
- Develop pattern designs by spreading and cutting methods
- Develop and understand the basic construction of knit patterns in pattern making and construction.

Course Content Details

Theory	Practical
<ul style="list-style-type: none"> • The conception of Grading both by manual method & computerized modes : <ul style="list-style-type: none"> - Introduction to apparel grading corrodng bodices, sleeves, collars, skirts, pants • Pattern making for knits : <ul style="list-style-type: none"> - Shirt, bodice, sleeve, trousers, polo shirt (drafting & construction) • Introduction to fitted garments / contoured garments • Fitted dress block : <ul style="list-style-type: none"> - Strapless evening bodice - Halter neckline - Lingerie-wear • Jackets – waistcoat (drafting and construction) 	<ul style="list-style-type: none"> - Developing various graded patterns from the basic blocks. - Developing patterns of basic knitted garment blocks

References:

1. Pattern making & cutting - Martin M Shoben & Javet P. Ward – Butterworth Heinemann, Oxford
2. Pattern making by Armstrong – Harper Collin S, Los Angeles, USA

GARMENT CONSTRUCTION III LAB

L T P
0 0 6

Course Code No.: CGTPC214

Total Contact hrs.:

Theory : 0 hr.

Tutorial : 0 hr.

Practical: 90 hrs.

Prerequisite: CGTPC113

Credit: 3

Total marks: 100

Practical:

End Term Exam: 40

P.A.: 60

Rationale: This course aims at developing skills in specialized apparel (especially knits) construction. This course also develops several types of seam finishes, according to the requirement of the material and also makes the participants prepare construction/quality control reports.

Course Outcomes:

After completion of the course, the students will be able to

- Select seams finishes for garments
- Attach elastic, zip, plackets and button loops
- Learn about different types hem finishes and their uses
- Identify the different types of material and to select proper stitch type
- Construct different stylized garments

Course Content Details

Practical
<p>Practical demonstration of the machinery and preparation of the report & sample in producing the coats, jackets & knits.</p> <ul style="list-style-type: none"> • On knits fabrics: <ul style="list-style-type: none"> ➤ Tee shirt – round neck/collar neck, sleeve attachment, ½ sleeve & full sleeve ➤ Flatlock sleeve finish/hem finish ➤ Ladies' dress (stripe materials), zip at back ➤ Elastic attachment at waistband for skirt sleeve end finish with ½ elastic and leg bottom finish also • On woven fabrics: <ul style="list-style-type: none"> ➤ Waistcoat on muslin ➤ Fabric body suit ➤ Contour dress Jacket

References:

1. Apparel Technology by Jacob Solinger, Bobbin Blennttein media Corporation, Columbia, USA

MINOR PROJECT

L	T	P
0	0	4

Course Code No.: CGTPR202

Total Contact hrs:

Theory: 0

Tutorial: 0

Practical: 60

Credit: 2

Total marks: 100

Practical:

End Term Exam: 40

P.A.: 60

Rationale: To make students able to reflect on the theoretical & practical learning in a given semester and to project the technical accomplishment combined with a creative flare with an in-depth conceptualization and implementation of the design process.

Course Outcomes:

On completion of the course, students will be able to

- Design the entire process including research, theme, mood, colour development, exploration, illustration etc. for preparing a garment with all details.
- Use different kinds of decorative and structural designs and the knowledge they gain from the entire semester and develop a garment collection.
- Develop the understanding of team work and bond binding with work partners
- Develop the skills for project work.

Course Content Details

Integrated Term project is the culmination of all that the student learns in a semester to develop their knowledge, skill, and design. They should develop the knowledge to integrate this learning with the confidence to transfer the same into a product with their design philosophy. The collection must therefore reflect the technical accomplishment combined with a creative flare with an in-depth conceptualization and implementation of the design process. Students should choose a theme and the theme should provide for wide scope for interpretation and adaptation. Based on all the inputs received during all four semesters, and guidelines, two students are required to work together to conceptualize and develop a mini collection of four garments with each one developing two garments. The collection must be targeted towards women's wear, the project is to design and develop a women's wear ensemble (dress of women), based on his or her design philosophy, for a well-defined customer profile.

Methodology

1. Work in a group of 2-3 students.
2. Avoid repetitive styles, silhouettes and colours.
3. Use only cotton and cotton blends.
4. Work on the accessories for the garments.
5. Each collection should have a theme, keywords, season, categories, target market, customer profile, age group, income, taste and preferences, fabrics (construction course), colours, mood, concept, silhouettes, accessories, no of garments, detail of garments, etc.

Reference Books :

1. Promostyl Women's, Men's & Children's wear.
2. WGSN

PROGRAM ELECTIVE:**TRADITIONAL EMBROIDERY**

L T P
0 0 4

Course Code No.: CGTPE202A

Total Contact hrs.:

Theory:0 hr.

Tutorial:0 hr.

Practical: 60 hrs.

Credit:2

Total marks: 100**Practical:**

End Term Exam:40

P.A.:60

Rationale:

This course will provide basic knowledge of embroidery stitches, tools and equipment required for embroidery and about traditional embroidery of India. It is necessary to learn basic embroidery stitches for enhancing the beauty of garments. This course will provide base to make garments aesthetically beautiful.

Course Outcomes:

On completion of the course, students will be able to:

- Develop a thorough understanding of the history, techniques, and cultural significance of traditional embroidery.
- Demonstrate proficiency in various traditional embroidery stitches and techniques from different cultures.
- Create intricate embroidery patterns and projects.
- Analyze traditional embroidery designs, understanding their symbolic and artistic value.
- Demonstrate hands-on experience through practical assignments, focusing on the creation and application of traditional embroidery in contemporary contexts.
- Demonstrate practical relevance by integrating traditional embroidery techniques into modern garment and textile design.

Competencies

The theory and practical in this course are to be taught in such a way that after completion of this course student should be able to acquire following competencies:

- Select appropriate embroidery type for given garment design
- Prepare samples of traditional Indian embroidery

Course Content Details

Unit	Major Learning Outcomes	Topics and Sub-topics
Unit –I Introduction to embroidery and tools and equipment required for hand embroidery.	<ul style="list-style-type: none"> • Appreciate the need of embroidery in garments • Select appropriate tools and equipment for given embroidery work. 	<ul style="list-style-type: none"> • Origin of embroidery • development of embroidery • importance of embroidery • Selection, use and maintenance of tools and equipment for embroidery • Various threads used in embroidery. • Accessories used in embroidery. Various types of Needles and fabrics with its impact on quality parameters.

Unit– II Different types of Basic Embroidery Stitches.	<ul style="list-style-type: none"> • Differentiate between different types of basic embroidery stitch. <p>Note: After completion of each stitch demonstration should be given</p>	<ul style="list-style-type: none"> • Back stitch • Stem stitch • Blanket stitch • Chain stitch • Laid and couching/cording • Cross stitch • Feather stitch / fly stitch • Satin stitch • Lazy –daisy stitch • Bullion and French knot • Long and short stitch • Herring bone
Unit – III Different types of Indian Embroideries.	<ul style="list-style-type: none"> • Describe different Indian embroidery stitches. • Explain usage of material and its explorations from historical and recent perspective 	<ul style="list-style-type: none"> • Kashmiri kashida • Bagh and phulkari of Punjab • Chamba rumals of Himachal • Kashida, sujani and appliqué of Bihar • Bengal kantha • Murshidabad and Dacca embroidery • Manipuri embroidery • Rajasthan embroidery • Kasuti of Maharashtra and Mysore • Chikankari of Lucknow (Uttar Pradesh) • Kutch and Kathiawar embroidery of Gujarat • Gold and silver embroidery (zardosi)
Unit – IV Product Development	<ul style="list-style-type: none"> • Design a product incorporating traditional embroidery 	<ul style="list-style-type: none"> • Designing of product with application of any one traditional embroidery

Suggested List of Exercises/Practical

The exercises should be properly designed and implemented with an attempt to develop different types of skills leading to the achievement of the competency –

S. No.	Unit No.	Exercises/Practical	Approx. Hours Required
1	I & II	<ul style="list-style-type: none"> • Learn and practice stitches 	10
1	III	<ul style="list-style-type: none"> • Prepare samples of following Indian embroidery on 8”/8” fabric. The size of the design should be 4”/4”. Also prepare a report indicating fabric used, type and size of needle, type of thread and amount of all the material consumed • Kashmiri • Phulkari • Chamba • Chikankari • Kantha • Manipuri • Kutch • Kathiawari • Kasuti (Dharwadi) • Applique Patch work 	25

2	III	Collect the samples and images on each type of embroidery and make a scrap book.	05
3	IV	Design a product with any one Traditional Embroidery	10
Total			50

Suggested List of Student Activities (10 hrs.)

- Students will prepare File/journal for the above-mentioned Experiments.
- Students will prepare sample of above stitches on fabric.
- Student will collect photographs from internet, which is related to field application of various topics as an assignment.

Suggested Learning Resources

A. List of Books

Sr. No.	Title of Book	Author	Publication
1	Traditional Embroideries of India	Dr. Shailaja D. Naik	A.P.H. Publishing Corporation
2	Crafts of Gujarat Embroidery Ornaments.	Jaya Jaitly	
3	Textiles and embroidery of India	Kamladevi Chattopadhyay & Jasleen Dhamecha	Mark Publications, 34-38 Bank Street, Bombay, India.
4	Indian Embroidery	Savitri Pandit	
7	Complete guide to needle work	---	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

B. List of Major Equipment/ Instrument / Samples

Traditional best quality samples of each embroidery

BASIC FASHION PHOTOGRAPHY

L T P
0 0 4

Course Code No. : CGTPE202B

Total Contact hrs.:

Theory:0 hr.

Tutorial:0 hr.

Practical: 60 hrs.

Credit:2

Total marks: 100

Practical :

End Term Exam:40

P.A.:60

Rationale:

This course will enable the students to examine and understand the various constituent parts and processes in a micro environment and their interrelationships as manifested in socio-cultural, economic, political, religious and aesthetic realities therein through visual documentation. They will understand the basic principles of photography as a skill and medium for effective documentation and communication. It will enable them to apply the visual image existing in natural and human-made environments and make them aware of cultural nuances and personal interpretations in visual documentation

Course Outcomes:

On completion of the course, students will be able to:

- Develop a comprehensive understanding of the principles and history of fashion photography.
- Demonstrate proficiency in various photographic techniques and equipment used in fashion photography.
- Plan photo shoots, including working with models, makeup artists, and stylists.
- Analyze fashion images, understanding their aesthetic and commercial impact.
- Practice through practical assignments, focusing on creating compelling and marketable fashion photography.

Theory:

UNIT TOPIC / SUB-TOPIC	Time allotted Hrs.
UNIT – I i) Elements of Photography ii) Composition iii) Lighting iv) Camera Technique Subject Matter/Visual Image – People – Products – Places	10
UNIT – II Lecture demonstration on ‘Composition, Shapes, Lines and curves, Diagonals for Dynamism Rule of Thirds	10
UNIT – III Lecture demonstration on i) Depth of Field & Selective Focus ii) Point of View and Unusual Angles & Framing	10

iii) Images & Cropping iv) People Photography v) Photographing Architecture and Landscape	
UNIT – IV Lecture demonstration on i) Black & White Photography ii) Color Harmony in Photography iii) Qualities of Light (Hard and Soft) Studio Still-life iv) Fashion Photography-Styling in the indoor	10
Practice / Activities	20

Suggested Implementation Strategies

- Illustrated Lectures and demonstrations in each class.
- Group discussions
- Case studies
- Review by faculty
- Task based assignments

PRACTICAL:

Suggested list of assignments / activities:

Assignment 1

Details/ description of assignment	Shooting of Surface textures and Motifs; 1 series of 10 photographs
Evaluation parameter	<ul style="list-style-type: none"> - Clarity and use of the camera to define the subject well. - Storytelling through good colour and composition - Balance between the achieved photograph and the 100 word write up. - Understand the various constituent parts & processes in a microenvironment. - Understand & use the essential techniques of visual/graphic documentation and presentation - Use of personal interpretation in visual documentation - Visual appreciation and understanding of the subject, analysis and interpretation - Photo documentation as a means of telling a shared or individual narrative - Attendance & Consistency - Understand the basic principles of photography - Quality of information collected and presented

Assignment 2

Evaluation parameter	<ul style="list-style-type: none"> - Clarity and use of the camera to define the subject well. - Storytelling through good colour and composition - Balance between the achieved photograph and the 100 word write up. - Understand the various constituent parts & processes in a microenvironment. - Understand & use the essential techniques of visual/graphic documentation and presentation - Use of personal interpretation in visual documentation - Visual appreciation and understanding of the subject, analysis and interpretation
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	<ul style="list-style-type: none"> - Photo documentation as a means of telling a shared or individual narrative - Attendance & Consistency - Understand the basic principles of photography - Quality of information collected and presented
Details/ description of assignment	Doing a colour story; the objective of this exercise is to do a visual essay and narrate a story only through 20 images or less.
Evaluation parameter	<ul style="list-style-type: none"> - Use of personal interpretation in visual documentation - Visual appreciation and understanding of the subject, analysis and interpretation - Photo documentation as a means of telling a shared or individual narrative - Understand the basic principles of photography - Quality of information collected and presented
Learning outcome	<ul style="list-style-type: none"> - Overview and microcosmic view of socio cultural environment related to craft sectors. - Awareness of the various aspects of photography as a tool for documentation and communication - Ability to appreciate and create stylish visual representation. - Ability to use the image as a means to convey one's own ideas and expressions - Awareness, interaction & experience of Craft related environment through photo documentation.

Suggested Learning Resources

(a) References Books:

Title	Author; Publication; Edition; Year
1) Creative photography workbook	John Hedgecoe, Collins and Brown
2) Pro Techniques of People Photography	Gary Bernstein, HP Book, USA
3) Collins Complete Guide to Photography	Michael Freeman, Harper Collins Publishers
4) Visual Anthropology: Photography as a research Method	Collier and Collier, 1986
5) Visual Methods in Social Research	Marcus Banks, Sage Publications, 2002

(b) Reference Magazines, Journals and other sources:

- National Geographic
- Better Photography
- Asian Photography
- Times Journal of Photography
- Internet

KIDS GARMENT

L T P
0 0 4

Course Code No.:CGTPE202C

Total Contact hrs.:

Theory:0 hr.

Tutorial:0 hr.

Practical: 60 hrs.

Credit:2

Total marks: 100

Practical :

End Term Exam:40

P.A.:60

Rationale:

This course aims at developing skills in specialized apparel construction. During the course, students will reach a deep understanding of the peculiarities of the kids wear market, and the creative challenge of making a collection adopting a suitable choice of materials, as well as the construction techniques and the modalities to accurately develop sizes and proportions.

Course Outcomes:

On completion of the course, students will be able to:

- Illustrate children's garment.
- Construct the design for children's garment
- Apply suitable decorative finishes for emphasis the garment
- Calculate the material and fastener requirement for each garment.
- Design development, pattern development and product development for a particular garment

Course Content Details

UNIT TOPIC / SUB-TOPIC	Time allotted Hrs.
1. Designing, drafting and constructing the following garment. <ul style="list-style-type: none"> • Bib and Bonnet • Baby wrapper and Apron • Mittens and Booties • Jabla and Panty • Jumpsuit • Summer frock • Yoke frock- • Kid's Waist Coat • Bloomers 	30
2. Design Development (any one Garment) <ul style="list-style-type: none"> • Understanding the domestic market and designing for a wide segment of children's garments • Selection of any one category of clothing per group namely playwear, holiday/resort Wear, formalwear, outwear, sleepwear • Selection of any one age group • Fabric sourcing as per the requirements of the occasion and season. 	30

Suggested Implementation Strategies

- Illustrated Lectures and demonstrations in each class.
- Group discussions
- Case studies
- Review by faculty
- Task based assignments

Suggested Learning Resources

(c) References Books:

1. Apparel Technology by Jacob Solinger, Bobbin Blennteinmedia Corporation, Columbia, USA
2. Laura strutt Sewing for babies and children Freelance 2017

ESSENCE OF INDIAN KNOWLEDGE & TRADITION

L T P
2 0 0

Course Code No.: AU202

Total Contact Hrs.: 30
Credit: 0

(Progressive Assessment only)

Rationale:

Considering the need of protecting Indian knowledge and tradition, the diploma level students of Automobile Engineering should be facilitated the concepts Indian traditional knowledge and to make them understand the importance of roots of knowledge system and methods of application in today's life and how to protect traditional knowledge system.

Interpretation of the concepts of Intellectual property to protect the traditional knowledge as well as importance of Traditional knowledge in Agriculture and Medicine must be known.

Course Outcome:

On successful completion of the course, students will be able to:

- Discuss the concepts of traditional Indian knowledge and roots of knowledge system and indigenous knowledge system
- Explain the technique of protection of traditional Indian knowledge
- Discuss legal frameworks of traditional knowledge
- State intellectual property rights
- State traditional knowledge in Different Sectors

Course content details

UNIT	TOPIC/SUB-TOPIC	HRS.
1	Introduction to traditional knowledge: Define traditional knowledge, nature and characteristics, scope and importance, kinds of traditional knowledge (Unani / Siddha/ Ayurveda), Indigenous Knowledge (IK), characteristics, traditional knowledge vis-a-vis indigenous knowledge, traditional knowledge of Meghalaya	07
2	Protection of traditional knowledge (TK): The need for protecting traditional knowledge, Significance of TK Protection, value of TK in global economy, Role of Government to harness TK.	07
3	Legal framework and TK: The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, Plant Varieties Protection and Farmer's Rights Act, 2001 (PPVFR Act); The Biological Diversity Act 2002 and Rules 2004, the protection of traditional knowledge bill, 2016.	06
4	Traditional knowledge and intellectual property: Systems of traditional knowledge protection, Legal concepts for the protection	04

	of traditional knowledge, Patents and traditional knowledge, Strategies to increase protection of traditional knowledge, Geographical Indications (GI).	
5	Traditional Knowledge in Different Sectors: Traditional knowledge and engineering, Traditional medicine system, TK in agriculture, Traditional societies depend on it for their food and healthcare needs, Importance of conservation and sustainable development of environment, Management of biodiversity, Food security of the country and protection of TK	06

Reference Books:

1. Traditional Knowledge System in India, by Amit Jha, 2009.
2. "Knowledge Traditions and Practices of India" Kapil Kapoor.
3. Madhya Himalayi Sanskriti mein Gyan, Vigyan evam Paravigyan by Prof PC Pandey.

Suggested Online Link:

Web Links:

1. <https://www.youtube.com/watch?v=LZP1StpY>
2. <http://nptel.ac.in/courses/12110600/>