

1. **Course Title** : GARMENT CONSTRUCTION II (PRACTICAL)
2. **Course Code** : GT/FT-401
3. **Semester** : 4th
4. **Rationale of the course** : Sewing is the craft of fastening or attaching objects using stitches made with a needle and thread. Sewing is one of the oldest of the textile arts.

5. Teaching Scheme (in hours)

Lecture	Tutorial	Practical	Total
15	-	100	115

6. Examination Scheme

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
-	-	-	-	100	100	200	66

7. Detail Course Content:

Chapter No.	Chapter Title	Content	Hours
Unit-I	Ethnic wear	<ul style="list-style-type: none"> ➤ Construct <i>any one</i> of the following dresses: <ul style="list-style-type: none"> • Basic Kurta, • Angrakha, • Basic Salwar • Basic Churidar • Princess and Empire style line Kurta ➤ Waist Coat or Shrug 	18 + 1L
Unit-II	Dresses & Gowns	<ul style="list-style-type: none"> ➤ Construct <i>any one</i> of the following dresses: <ul style="list-style-type: none"> • Normal waist • Low waist and • High waist 	12 + 1L
Unit-III	Skirts	<ul style="list-style-type: none"> ➤ Construct <i>any one</i> of the following skirts with waistbands: <ul style="list-style-type: none"> • Flounce • Gathers • Circular with uneven hemline • Gored • Wrap-arounds 	14 + 2L
Unit-III	Style Features	<ul style="list-style-type: none"> ➤ Pleats: <ul style="list-style-type: none"> • Kick pleats • Knife pleat • Inverted box pleats • Simple box pleats • Accordion pleat • Top stitched pleat 	12 + 2L

		<ul style="list-style-type: none"> ➤ Tucks: <ul style="list-style-type: none"> • Pintucks • Space tucks • Twisted or wavy tucks 	
Unit-IV	Pockets, Plackets, Zippers & Waistbands	<ul style="list-style-type: none"> ➤ Construction of: <ul style="list-style-type: none"> Pockets: <ul style="list-style-type: none"> • Shirt Patch Pocket • Patch with Flap • Hip Pocket • Slant Pocket Set in seam pockets • Single lip pockets, Double lip pockets. Plackets: <ul style="list-style-type: none"> • Faced placket • Diamond placket • Continuous diamond placket Zippers: <ul style="list-style-type: none"> • Centre • Lapped • Invisible Waistband finishing with elastic and without elastic. 	22 + 3L
Unit-V	Types of Facings	Construct the: <ul style="list-style-type: none"> • Facing with Shape. • Facing with bias strip. • Continuous facing. 	10 + 1L
Unit-VI	Men's Formal Shirt and Trousers	Construction of: <ul style="list-style-type: none"> • Basic Shirt with Yoke • Any one Trouser 	12

8. Suggested Implementation Strategies: The syllabus can be completed by regular classes, special classes using audio –visual aids, tutorial classes and providing writing materials. Practical classes help the students to get a better and clear understanding on the subject.

9. Suggested learning Resource:

- 1) *Flat Pattern Design* by Bane Allyne
- 2) *Metric Pattern Cutting* by Winifred Aldrich
- 3) *Pattern Making for Fashion Design* by Helen J. Armstrong
- 4) *The Technology of Clothing Manufacture* By Carr & Latham
- 5) Zarapkar, *Couture sewing techniques*
- 6) *Dress Pattern Designing* Natalie Bray

1. Course title : PATTERN MAKING & GRADING

2. Course code : GT/FT-402

3. Semester : Fourth

4. Rationale of the course : To utilize the basic techniques of Pattern Making in creating various styles and gain a better and in depth understanding on the subject and also implement these techniques to create Indian and Western outfits.

5. Teaching Scheme (in hours)

Lecture	Tutorial	Practical	Total
15	-	80	95

6. Examination Scheme

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
-	-	-	-	100	50	150	50

7. Detailed Course Content:

Chapter No	Chapter Title	Content	Hours
Unit-I	Ethnic Wear	Draft and Construct the following patterns: <ul style="list-style-type: none"> • Basic Kurta, • Angrakha, • Basic Salwar • Basic Churidar and • Princess and Empire style line Kurta • Waist Coat or Shrug 	30 + 4L
Unit-II	Dresses & Gowns	Draft and Construct the following patterns using Dart equivalents: <ul style="list-style-type: none"> • Normal waist • Low waist and • High waist 	15 + 3L
Unit-III	Skirts	Draft and Construct the following patterns using: <ul style="list-style-type: none"> • Flounce • Gathers • Circular with uneven hemline • Gored • Wrap-arounds 	15 + 5L
Unit-IV	Men's Dresses	Prepare the pattern for : <ul style="list-style-type: none"> • Basic Shirts • Basic trouser and variations 	10 + 1L
Unit-V	Introduction to Pattern Grading	<ul style="list-style-type: none"> • Grading and its purpose • Methods of grading • Prepare Graded Patterns for: <ul style="list-style-type: none"> ▪ Basic Bodice, Basic Skirt and Basic Sleeve 	10 + 2L

8. Suggested learning Resource :

- i. Flat Pattern Design by Bane Allyne
- ii. Metric Pattern Cutting by Winifred Aldrich
- iii. Pattern Making for Fashion Design by Helen J. Armstrong

- 1. Course title** : TEXTILE PROCESSING
- 2. Course code** : GT/FT-403
- 3. Semester** : 4th
- 4. Rationale of the course** : Modern Development of Textile industries require more understanding of basic textile processing for industrial purpose. This part of the Textile processing explains various fundamentals underlying the chemistry of Textile processing, which will develop basic understanding and skill of the students.

- 5. Course outcome:-** After completion of the course the student will be able to
- i) Explain the different steps involved in textile processing
 - ii) Explain the singeing, scouring, desizing & bleaching processes & it's objectives.
 - iii) Explain the classification of dyes, comparison between natural & synthetic dyes; application of various dyes on cotton, viscose & silk fibres.
 - iv) Explain the conventional Tie & Dye process , working principle of Garment dyeing machine.
 - v. Explain the steps involved in printing, preparation of printing paste and methods of printing.
 - vi. Classify the finishing on the basis of methods of application & on the basis of its purpose.

5. Teaching scheme (in hours)

Lecture	Tutorial	Practical	Total
42+3	-	32	77

6. Examination Scheme

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
70	30	100	33	25	25	50	17

7. Detailed Course Content:

Ch. No	Chapter Title	Content	Hours
Unit-I	Fundamentals of Textile Processing	1.1. Introduction to Textile Processing. 1.2. Objects of Textile Processing 1.3. Different steps involved in Textile Processing.	4
Unit-II	Preparatory Processes of Textile Processing.	2.1. Basic ideas of Singeing and its objectives. 2.2. Basic ideas of Scouring and its objectives. 2.3. Basic ideas of Desizing and its objectives. 2.4. Different types of Bleaching process and its objectives.	8
Unit-III	Dyeing	3.1. History and Development of Dyeing. 3.2. Classification of Dyes and Pigments used in Textile Industry. 3.3. Comparison between Natural and Synthetic	12

		<p>Dyes.</p> <p>3.4. Dye used for Cotton and Viscose Fiber and their application process</p> <p>i. Direct Dye. ii. Reactive Dye. iii. Vat Dye.</p> <p>3.5. Dye used for Silk and Wool Fibre and their application process.</p> <p>i. Acid Dye. ii. Basic Dye.</p> <p>3.6. Different types of conventional Dyeing process.</p> <p>i. Tie & Dye. ii. Basic etc.</p> <p>3.7. Different types of Garment Dyeing machine.</p>	
Unit-IV	Printing	<p>4.1. Introduction of Printing.</p> <p>4.2. Different Steps involved in Printing.</p> <p>4.3. Different Types of Printing Process.</p> <p>4.4. Conventional method for preparation of Print Paste.</p> <p>4.5. Brief idea of Block Printing</p> <p>4.6. Brief idea of Screen Printing.</p> <p>4.7. Basic idea of Machine Printing.</p>	10
Unit V	Finishing	<p>5.1 Objects of Finishing.</p> <p>5.2. Classification of Finishing on Basic of method of application.</p> <p>5.3. Classification of Finishing on the basic of its purpose.</p> <p>5.4 Anti crease finish</p> <p>5.5 Anti-soil finish</p> <p>5.6 Water repellent finish</p> <p>5.7 Fire resistant finishes</p> <p>5.8 Silicon finish</p>	6
Unit-VI	Care Label	<p>6.1 Importance of care labelling in garment</p> <p>6.2 Symbols used in care labelling</p> <p>6.3 Care labeling rules</p>	2

8. Distribution of Marks:

Chapter No	Chapter Title	Type of Question			Total Marks
		Objective Type	Sort Questions	Descriptive Questions	
Unit I	Fundamentals of Textile Processing	1+1	2	-	4
Unit II	Preparatory Processes of Textile Processing.	1+1+1	2	5	10
Unit III	Dyeing	1+1+1+1+1	4	15	24
Unit IV	Printing	1+1+1	3	8	19
Unit V	Finishing	1+1	3	8	13
Total					70

9. Suggested Implementation Strategies: The syllabus can be completed by regular classes, special classes using audio –visual aids, tutorial classes and providing writing materials. Practical classes help the students to get a better and clear understanding on the subject.

10. Suggested learning Resource :

- i. Technology of bleaching by Dr. V.A. Shenai
- ii. Technology of Dyeing by Dr. V.A. Shenai
- iii. Technology of Printing by Dr. V.A. Shenai
- iv. Textile finishing by G.Nallakilli

- 1. Course title** : TEXTILE PROCESSING (PRACTICAL)
2. Course code : GT/FT-403
3. Semester : 4th
4. Detailed Course Content:

Chapter No	Chapter Title	Content	Hours
Unit-I	Preparatory Process	1.1. Scouring of cotton goods. 1.2. Bleaching of cotton yarn by oxidizing bleaching agent.	6
Unit-II	Dyeing	2.1. Dying of cotton and Viscose yarn by using following Dyes. i) Direct Dye ii) Reactive Dye iii) Vat Dye. 2.2. Degumming and Dyeing of Silk yarn by using Acid Dye and Basic Dye.	14
Unit-III	Printing	3.1. Preparation of Printing paste by pigment colour. 3.2. Printing of Cotton fabric by hand block and Screen printing Methods. 3.3. Printing of Cotton and silk fabric by resist style (Tie & Dye and Batik) 3.4. Preparation of screen for printing.	14
Unit-IV	Fastness Properties	4.1. Assessment of colour (Washing) Fastness 4.2. Assessment of Light Fastness. 4.3. Assessment of Rubbing Fastness. 4.4 Use of Spectrophotometer for whiteness index, fastness property and colour matching.	14
Unit-V	Tie & Dye and Batik	5.1 Tie & dye on cotton fabric 5.2 Various batik dyeing process.	

- 1 Course Title** : COMPUTER AIDED DESIGN
2 Course Code : GT/FT-404
3 Semester : 4th
4 Objectives : Main purpose of this subject is what is Computer Graphics, how to use a computer Graphics. Uses of Corel Draw, Making Sketch & Drawing in CorelDraw, Restore of Photograph in Photoshop, Creating Pattern etc.

5. Teaching Scheme(In hours)

Lecture	Tutorial	Practical	Total
--	12	80	92

6. Examination Scheme:

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
-	-	-	-	100	50	150	50

6. Detailed Course Content:

Chapter No	Chapter Title	Content	Hours
Unit-I	Designing Through	<p>➤ CorelDraw</p> <ul style="list-style-type: none"> • Creating flat sketches, motifs, small designs, logos. • Creating labels : Name label, Size label, Care label • Creating text effects in CorelDraw • Drawing fashion silhouettes in CorelDraw. 	12 + 3T
Unit-II	Drawing and painting	<ul style="list-style-type: none"> • Photoshop • Using the toolbox and palette • Creating shapes and applying textures • Creating brush stencils and motifs from photos • Building up the design using layers • Layering images and applying layer styles • Photo retouching • Create your own design • Fashion Figures of different poses • Illustrator • Draw a sketch, fill with colour / pattern • Trace photo of a garment or sketch • Create repeated patterns, apply realistic texture from a photo, create mesh texture • Change the size / scale or direction of a 	28 + 3T

		repeating pattern <ul style="list-style-type: none"> • Inserting designed motifs to dress up the fashion figures • Replicate an existing design from a Fashion Magazine by rendering techniques 	
Unit-III	Computer Aided Woven Design	➤ Introduction to softwares for textile woven design with windows platform. <ul style="list-style-type: none"> • Weave – Creation of various weaves, Creation of various stripes, checks, plaids, dobby designs, Application of colours. • Design and Repeat- Creation of designs, Tracing of designs, Repeat setting, Changing of repeat, Application of colours, Weave insertion , Application of weaves, Fabric simulation 	30 + 3T
Unit-IV	Computer in Garment Industry	➤ CAD in <ul style="list-style-type: none"> • Garment designing and • Pattern making, • Grading and sorting. 	10 + 3T

7. Recommended Books:

- i) CorelDraw X7: The Official Guide, By- Gray David Bouton, Pub: McGraw Hill Education, 11 Edition
- ii) Photoshop CC for Dummies, By- Peter Bayer
- iii) Advance Fashion sketch book Bina Abbing
- iv) Fashion Illustration Colin Barnes / Steven Stipelman
- v) The Fashion guide Haurent Hartung
- vi) The Snap Fashion sketch book Bill Giazar
- vii) Figures Drawing for Fashion I & II Isao Yajima
- viii) Fashion Illustration Today Nicholas Drake
- ix) Fashion Illustration Now Laird Borrelli
- x) Fashion Art for the Fashion Industry Rita Gersten
- xi) Fashion Design in Vogue William Packer

1. Course title : GARMENT MERCHANDISING & COSTING

2. Course code : GT-405

3. Semester : Fourth

4. Rationale of the course: This course is aimed towards developing the student's ability to understand the basic concept of merchandising and to understand the core responsibilities of a merchandiser in various key areas of the organization. Visual Merchandising has been integrated into this course, which form a very crucial part of the Retail Merchandising process.

5. Course Outcome: After completion of this course the students will be able to-

CO1: Understand the role of a merchandiser in various segments of the industry.

CO2: Study the buying/ selling activity, selecting the merchandise assortment.

CO3: Analyze fashion trends, sales histories, target market, buyer's responsibility working with merchandise.

CO4: Study the detail concept about fashion advertising, visual merchandising, special events, publicity and product evaluation.

6. Teaching scheme (in hours):

Lecture	Tutorial	Practical	Total
42 + 3	-	-	45

7. Examination Scheme:

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
70	30	100	33	-	-	-	-

8. Detailed Course Content:

Chapter No	Chapter Title	Content	Hours
1	INTRODUCTION TO MERCHANDISING	<ul style="list-style-type: none"> Definitions, role of Merchandiser. Product Development- Definitions, Objectives. Merchandising Calendar- preparation and uses. Sourcing – Factors affecting Sourcing Fashion life cycle – Fad, Classics, Long run & Short run fashions 	6
2	MERCHANDISING PLANNING AND BUYING	<ul style="list-style-type: none"> Export Houses, Buying Houses, Liaison Offices & Domestic Manufacturers Analyze economic and fashion trends and sales histories. Selection of appropriate merchandise. The buyer's responsibility working with merchandise. Organizing buying selling activity. The resident buying office 	10

3	CONSUMER BEHAVIOUR	<ul style="list-style-type: none"> Understanding Consumer behaviour Planning Merchandise Assortment & Marketing Mix. Selecting Merchandise Assortment. 	3
4	MARKETING CONCEPT	<ul style="list-style-type: none"> Define Marketing, target market Aspects involved in marketing, marketing process Marketing Vs. Merchandising Fashion Marketing Mix Market segmentation & Target positioning 	6
5	ADVERTISING	<ul style="list-style-type: none"> Fashion Advertising Special Events Product Evaluation Publicity/Promotion 	3
6	VISUAL MERCHANDISING	<ul style="list-style-type: none"> Overview of Visual Merchandising, Objectives, Study of the store and its environment, Displaying the merchandise, Signage, Ticketing, Materials, Props & Lighting techniques - application of effective elements, Handy tools for a Visual Merchandiser, Store Layout 	5
7	IMPORT / EXPORT PROCEDURES	<ul style="list-style-type: none"> Import export trade Import export terms and documents in details Import export procedures in India 	4
8	COST, PRICING & PROFIT	<ul style="list-style-type: none"> Costs & Profits Systems of costing Stages of costing Determining Product Costs Cost – Volume relationship Pricing strategies 	5

9. Distribution of Marks

Chapter No.	Chapter Title	Type of question			Total Marks
		Objective Type (Compulsory)	Short Question	Descriptive Question	
1	Introduction to Merchandising	2	2	5	9
2	Merchandising planning and buying	3	3	4	10
3	Consumer Behaviour	2	5	3	10
4	Marketing concept	2	4	3	9
5	Advertising	2	6	0	8

6	Visual Merchandising	2	3	5	10
7	Import / Export procedures	2	3	5	10
8	Cost, Pricing & Profit	0	3	0	4
Total		16	29	25	70

10. Table of Specification 1

Sr. No	Topic	OBJECTIVE TYPE				SHORT ANSWER TYPE					ESSAY TYPE				
		K	C	A	T	K	C	A	H A	T	K	C	A	H A	T
1	Introduction to Merchandising	1	1		2	2				2			5		5
2	Merchandising planning and buying	1	1	1	3	1	2			3	4				4
3	Consumer Behaviour	2			2	2	2		1	5	3				3
4	Marketing concept	2			2	2	2			4		3			3
5	Advertising	2			2	2	2		2	6					0
6	Visual Merchandising	1	1		2	2			1	3	5				5
7	Import / Export procedures		2		2		1	2		3	5				5
8	Cost, Pricing & Profit	1			1	1	2			3					0
	Total	10	5	1	16	12	11	2	4	29	17	3	5	0	25

Table of Specification 2

Sl. No	Topic	Time allotted in hours	Percentage Weightage	K	C	A	HA	Total
	(a)	(b)	(c)					
1	Introduction to Merchandising	6	12.5	3	1	5	0	9
2	Merchandising planning and buying	10	25	6	3	1	0	10
3	Consumer Behaviour	3	6	7	2	0	1	10
4	Marketing concept	6	15	4	5	0	0	9
5	Advertising	3	6	4	2	0	2	8
6	Visual Merchandising	5	12.5	8	1	0	1	10
7	Import / Export procedures	4	8	5	3	2	0	10

8	Cost, Pricing & Profit	5	15	2	2	0	0	4
	Total =	42	100	39	19	8	4	70

K = Knowledge C = Comprehension A = Application

HA = Higher Than Application (Analysis, Synthesis, Evaluation)

10. Suggested learning Resource:

- i) Easey M (2009) Fashion Marketing, Third Edition, Blackwell Publishing.
- ii) Moore K and Pareek N (2010) Marketing: The Basics, Routledge Publications.
- iii) Kunz G I(2009) Merchandising: Theory, Principles and Practices ,Fairchild Publications.
- iv) Frings G S (2007) Fashion from Concept to Consumer, Pearson Prentice Hall.
- v) Jarrow J A (2002) Inside the fashion Business, Prentice Hall.
- vi) Jerligan Easterling Fashion Merchandising & Marketing
- vii) Leslie Davis Burns, Nancy O Bryant, The Business of Fashion designing, Manufacturing and Marketing
- viii) Dickerson Kitty G, Inside fashion Business
- ix) Robert Calbrone, Visual Merchandising
- x) Jyppe A Quidores, 77 Visual Merchandising techniques & Ideas

1. Course title : APPAREL QUALITY CONTROL

2. Course code : GT-406

3. Semester : 4th

4. Course outcome:- After completion of the course the student will be able to:

- state the meaning and importance of quality control.
- differentiate the different terminologies used in quality
- illustrate the apparel quality inspection procedures.
- Gain knowledge about the quality management.

5. Teaching scheme (in hours)

Lecture	Tutorial	Practical	Total
42+3	-	-	45

6. Examination Scheme

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
70	30	100	33	-	-	-	-

7. Detailed Course Content:

Ch. No	Chapter Title	Content	Hours
Unit-I	Concept and Scope	<ul style="list-style-type: none"> • Concept of Quality, Product Standards, Quality Control, Quality Assurance, Statistical Quality Control. • Principle of: TQM, Deming's PGDCA Cycle, KAIZAN • 5-S application in Apparel Industry • 7-QC tools in Apparel Industry. • Concept of ISO 9001:2000 standard 	10
Unit II	Quality Control organizations, Standards and Regulations	<ul style="list-style-type: none"> • Sources of quality and Performance Standards • BS, BIS, ASQ, ASTM, AATCC, ISO, INDA, GENETEX etc. • Eco-labels, Silk Mark, Wool Mark, other international labels. • Regulations on Apparel Labeling- Care labels, Fibre ID labels. • Regulations on Apparel Industry Practices. 	10
Unit-III	Inspection and managing quality	Inspection at various stages: <ul style="list-style-type: none"> • Raw material Inspection. • Incoming and raw material inspection • Fabric inspection – 4-point system. • In process/ on-line inspection: • Advantages – On line inspection during spreading, pattern making, cutting, sewing and ironing. Final inspection: Sampling plans and 	12

		<p>AQL charts –</p> <ul style="list-style-type: none"> Parameters for inspection of finished garments like Men's Trouser, Men's Shirt, Women's Kurta, Women's Pyzama, Churidar, Skirt etc. Level of final inspection. Packing & packaging quality tests. Toxicology of synthetic colourants and finishing chemicals Care labeling and international care symbols. 	
Unit-IV	Quality Management	<p>Systems for Quality Management</p> <ul style="list-style-type: none"> Product variation and Classification of Defects. Establishing Quality Management Teams <p>Methods of Assuring Quality</p> <ul style="list-style-type: none"> Preproduction Quality Assurance Quality Assurance during Production Post production Quality Assurance <p>Costs and Benefits of Quality Programs</p> <ul style="list-style-type: none"> Quality cost Index <p>Trends in Quality Management</p>	10

8. Distribution of Marks:

Chapter No	Chapter Title	Type of Question			Total Marks
		Objective Type	Sort Questions	Descriptive Questions	
Unit I	Concept and Scope of Quality	5	4	6	15
Unit II	Quality Control organizations, Standards and Regulations	8	4	8	20
Unit III	Inspection and managing quality	8	4	10	22
Unit IV	Quality Management	4	3	6	13
Total					70

9. Suggested Implementation Strategies: The syllabus can be completed by regular classes, special classes using audio –visual aids, tutorial classes and providing writing materials.

10. Suggested learning Resource:

1. Quality Assurance for textiles and apparel Sara J.Kadolph
2. Pradeep V Mehta & Satish Bharadwaj, Managing Quality in Apparel Industry.
3. Kenneth L. Arnold & Michael Holler, Quality Assurance Method & Technologies.
4. Ruth E. Glock & Grace I. Kunz, Apparel Manufacturing: Sewn Product Analysis

- 1. Course title** : PROFESSIONAL PRACTICE II
2. Course code : GT/FT-410
3. Semester : 4th
4. Rationale of the course : To develop general confidence, ability to communicate and attitude, in addition to basic technological concepts through Industrial visits, expert lectures, seminars on technical topics and group discussion.

Aim: Student will be able to:

- Acquire information from different sources.
- Students will learn to work in a team
- Apply research as design
- Develop approaches to use design in a real world context.
- Prepare notes for given topic.
- Present given topic in a seminar.
- Interact with peers to share thoughts.
- Prepare a report on industrial visit, expert lecture

5. Teaching scheme (in hours)

Lecture	Tutorial	Practical	Total
40	10	100	150

6. Examination Scheme

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
-	-	-	-	25	25	50	17

7. Detail Contents

Contents	Activities	Hrs
1. INDUSTRIAL VISITS		6

Structured industrial visits be arranged and report of the same should be submitted by the individual student, to form a part of the term work.

Two industrial visits may be arranged in the following areas / industries:

- Garment manufacturing unit for study of new technology adopted
- Fabric manufacturing unit
- Processing unit (along with transfer printing set-ups)
- Surface ornamentation units

2. Lectures by Professional / Industrial Expert be organized from **ANY THREE** of the following areas:

6

- How to create portfolio using means of digital media.

- How to give presentation using power point
- How to conceptualize ideas.
- Brainstorming activity.
- Comprehensive testing.
- Creativity learning using at least two different material.
- 3d study (sculpture study etc)

3. INDIVIDUAL ASSIGNMENTS:

6

- Write material specifications for any two materials like (Kauna products and water hyacinth products).
- Make products using above elements.
- Preparing models using development of surfaces.
- Select different materials with specifications for at least 2 different products..
- List the various properties and applications of following materials - i. jute ii. cotton iii. Eri silk iv. Muga silk v. Mulberry silk.

OR

Conduct **any one** of the following activities through active participation of students and write report

- Rally for energy conservation / tree plantation.
- Survey for local social problems such as mal nutrition, unemployment, cleanliness, illiteracy etc.
- Conduct aptitude , general knowledge test , IQ test
- Arrange **any one** training in the following areas :
a) Yoga. b) Use of firefighting equipment and First aid Maintenance of Domestic appliances.

4. MODULAR COURSES (OPTIONAL):

6

A course module should be designed in the following areas for max. 12 hrs. Batch size - min. 15 students.

Course may be organized internally or with the help of external organizations.

- Mix Media Technology.
- digital softwares.
- embellishment techniques.
- Personality development.
- Entrepreneurship development.

5. 3-D DESIGN USING SOFTWARE

6

The Student should draw - illustrations and also learn to use different media.. they should learn to create both 2D and 3D in paper (Minimum two sheets, each containing two problems) after learning the contents as above.