: GARMENT CONSTRUCTION II (PRACTICAL) 1. Course Title

: GT/FT-401 : 4th 2. Course Code

3. Semester

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	

Chapter No.	Chapter Title	Content	Hours
Unit-I	Ethnic wear	 Construct any one of the following dresses: Basic Kurta, Angrakha, Basic Salwar Basic Churidar Princess and Empire style line Kurta Waist Coat or Shrug 	18 + 1L
Unit-II	Dresses & Gowns	 Construct any one of the following dresses: Normal waist Low waist and High waist 	12 + 1L
Unit-III	Skirts	 Construct any one of the following skirts with waistbands: Flounce Gathers Circular with uneven hemline Gored Wrap-arounds 	14 + 2L
Unit-III	Style Features	 Pleats: Kick pleats Knife pleat Inverted box pleats Simple box pleats Accordion pleat Top stitched pleat 	12 + 2L

Unit-IV	Pockets, Plackets, Zippers & Waistbands	 Tucks: Pintucks Space tucks Twisted or wavy tucks Construction of: Pockets: Shirt Patch Pocket Patch with Flap Hip Pocket Slant Pocket Set in seam pockets Single lip pockets, Double lip pockets. Plackets: Faced placket Diamond placket Continuous diamond placket Zippers: Centre Lapped Invisible Waistband finishing with elastic and without 	22 + 3L
Unit-V	Types of	elastic. Construct the:	10
UIIIt- V	Types of Facings	Facing with Shape.	+
	1 4011180	Facing with Shape.Facing with bias strip.	1L
		 Continuous facing. 	
Unit-VI	Men's Formal	Construction of:	12
	Shirt and	Basic Shirt with Yoke	
	Trousers	Any one Trouser	

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 : DRAFTING, PATTERN MAKING & GRADING

2. Course code3. Semester3. 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

Chapter No	Chapter Title	Content	Hours
Unit-I	Ethnic Wear	Draft and Construct the following patterns:	
		Basic Kurta,	
		 Angrakha, 	30
		Basic Salwar	+
		Basic Churidar and	4L
		 Princess and Empire style line Kurta 	
		Waist Coat or Shrug	
Unit-II	Dresses &	Draft and Construct the following patterns using	
	Gowns	Dart equivalents:	15
		Normal waist	+
		Low waist and	3L
		High waist	
Unit-III	Skirts	Draft and Construct the following patterns using:	
		• Flounce	15
		Gathers	+
		Circular with uneven hemline	5L
		Gored	52
		Wrap-arounds	
Unit-IV	Men's Dresses	Prepare the pattern for:	10
		Basic Shirts	+
		Basic trouser and variations	1L
Unit-V	Introduction to	 Grading and its purpose 	
	Pattern Grading	 Methods of grading 	10
		 Prepare Graded Patterns for: 	+
		 Basic Bodice, Basic Skirt and Basic 	2L
		Sleeve	

- 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 complication 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

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

		Dyes. 3.4. Dye used for Cotton and Viscose Fiber and their application process i. Direct Dye. ii. Reactive Dye. iii. Vat Dye. 3.5. Dye used for Silk and Wool Fibre and their application process. i. Acid Dye. ii. Basic Dye. 3.6. Different types of conventional Dyeing process.	
		i. Tie & Dye. ii. Basic etc.3.7. Different types of Garment Dyeing machine.	
Unit-		4.1. Introduction of Printing.	10
IV		4.2. Different Steps involved in Printing.	
		4.3. Different Types of Printing Process.	
	Printing	4.4. Conventional method for preparation of Print	
	Timing	Paste.	
		4.5. Brief idea of Block Printing	
		4.6. Brief idea of Screen Printing.	
TT 1.	T. 11	4.7. Basic idea of Machine Printing.	
Unit	Finishing	5.1 Objects of Finishing.	6
V		5.2. Classification of Finishing on Basic of method of	
		application.5.3. Classification of Finishing on the basic of its	
		purpose.	
		5.4 Anti crease finish	
		5.5 Anti-soil finish	
		5.6 Water repellent finish	
		5.7 Fire resistant finishes	
		5.8 Silicon finish	
Unit-	Care Label	6.1 Importance of care labelling in garment	2
VI		6.2 Symbols used in care labelling	
		6.3 Care labeling rules	

8. Distribution of Marks:

Chapter		7			
Chapter No	Chapter Title	Objective	Sort	Descriptive	Total
NO		Type	Questions	Questions	Marks
	Fundamentals of				,
Unit I	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

: TEXTILE PROCESSING (PRACTICAL) 1. Course title

2. Course code : GT/FT-403 : 4th

3. Semester

Chapter No	Chapter Title	Content	Hours
Unit-I	Preparatory	1.1. Scouring of cotton goods.	6
	Process	1.2. Bleaching of cotton yarn by oxidizing bleaching agent.	
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 fabric5.2 Various batik dyeing process.	

1 Course Title : COMPUTER AIDEED 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

Chapter No	Chapter Title	Content	Hours
Unit-I	Designing Through	 CorelDraw 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	 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 	28 + 3T

		repeating pattern	
		• Inserting designed motifs to dress up the	
		fashion figures	
		• Replicate an existing design from a	
		Fashion Magazine by rendering techniques	
		> Introduction to softwares for textile woven	
		design with windows platform.	
	Computer Aided Woven Design	• Weave – Creation of various weaves,	
		Creation of various stripes, checks, plaids,	30
Unit-III		dobby designs, Application of colours.	
		• Design and Repeat - Creation of designs,	+ 3T
		Tracing of designs, Repeat setting,	31
		Changing of repeat, Application of	
		colours, Weave insertion, Application of	
		weaves, Fabric simulation	
		> CAD in	10
Unit-IV	Computer in	 Garment designing and 	10
	Garment Industry	 Pattern making, 	+ 3T
		Grading and sorting.	31

7. Recommended Books:

- i) CorelDraw X7: The Ofiicial Guide, By- Gray David Bouton, Pub: McGraw Hill Education, 11 Edition
- ii) Photoshop CC for Dummies, By- Peter Baver
- iii) Advance Fashion sketch book Bina Abling
- iv) Fashion Illustration Colin Barnes / Steven Stipelman
- v) The Fashion guide Haurent Hartung
- vi) The Snap Fashion sketch book Bill Giazer
- 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 : FASHION ILLUSTRATION -II

2. Course code : FT-4053. Semester : Fourth

4. Rationale of the course: Fashion illustration is the communication of fashion that originates with illustrations, drawing and painting. It is usually commissioned for reproduction in fashion magazines and which will develop basic understanding and skill of the students.

5. Teaching scheme (in hours)

Lecture	Tutorial	Practical	Total
-	-	80	80

6. Examination Scheme

Theory				Practical			
Examination Full Marks	Sessional Full Marks	Total Marks	Pass Marks	Practical	Practical Assessment	Total Marks	Pass Marks
-	-	-	_	50	50	100	33

Chapter No	Chapter Title	Content	Hours
Unit-I	Introduction to Fashion details	Introduction to Fashion details – various silhouettes & construction details	10
Unit-II	Figure studies with more detailing	 Female figure including eyes, noses, lips, fingers, feet, etc. Male figure including eyes, nose, lips, fingers, feet, etc. 	10
Unit-III	Use of textures	 Types of textures & its uses Different types of textures in fashion garments in different styles forms Different fabric rendering techniques Visualization of fabrics 	10
Unit-IV	Development of Costumes	 Development of Costumes on Croquis using elements of fashion (min-5) Develop your own rendering style. 	
Unit-V	Draped Costumes & Styles	 Different types of Draping and its style forms Illustrate different types female draping dresses Illustrate different types of male draping dresses Prepare Sketches of at least 6 different poses of both male & female figures. 	20
Unit-VI	Illustrations of children, women and men	 Children's wear for any 6 occasions Women's wear for any 6 occasions Men's wear for any 6 occasions 	

Unit- VII	Presentation techniques	Specification sheetsMoodboardTheme boardColour board	10
Unit- VIII	Developing costumes and rendering your own styles	 Adventure Sports Bunjee jumping Rafting Rock climbing Mountaining Skiing Parasuit Jumps Parade wear Runway Fashion 	

8. Suggested implementation Strategies: The syllabus can be completed by regular classes, special classes using audio- visual audio aids, tutorial classes and providing writing materials. Practical classes in the laboratory help students to understand the subject.

9. Suggested learning resource:

- i) Advance Fashion sketch book Bina Abling
- ii) Fashion Illustration Colin Barnes / Steven Stipelman
- iii) The Fashion guide Haurent Hartung
- iv) The Snap Fashion sketch book Bill Giazer
- v) Figures Drawing for Fashion I & II Isao Yajima
- vi) Fashion Illustration Today Nicholas Drake
- vii) Fashion Illustration Now Laird Borrelli
- viii) Fashion Art for the Fashion Industry Rita Gersten
- ix) Fashion Design in Vogue William Packer
- x) Fashion Illustration techniques by Zeshu Takanura
- xi) Drawing for fashion designers by Angel Fernandez and Gabriel Martin Roig
- xii) Fashion Illustration school. A complete handbook for aspiring designers and Illustrators by Carol A. Nunnelly.
- xiii) Fashion Illustration (Inspiration & Techniques) by Anna Kiper.

1. Course title : FASHION MERCHANDISING

2. Course code : FT-4063. 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	1	-	1	-

Chapter No	Chapter Title	Content	Hours
1	INTRODUCT ION TO MERCHANDI SING	 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	MERCHANDI SING PLANNING AND BUYING	 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 	14
3	CONSUMER BEHAVIOUR	Understanding Consumer behaviour	3

		 Planning Merchandise Assortment & Marketing Mix. 	
		• Selecting Merchandise Assortment.	
4	MARKETING CONCEPT	 Define Marketing, target market Aspects involved in marketing, marketing process Marketing Vs. Merchandising Fashion Marketing Mix Market segmentation & Target positioning 	6
5	ADVERTISIN G	 Fashion Advertising Special Events Product Evaluation Publicity/Promotion 	4
6	VISUAL MERCHANDI SING	 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 	8
7	EXPORT PROCEDURE	 Import export trade Import export terms and documents in details Import export procedures in India 	4
8	FASHION EVENTS – DOMESTIC & INTERNATIO NAL	 Fashion Shows and other Fashion related events in the country Fashion events as a marketing tool to launch new collections Product life cycle from concept to Retail & importance of the Fashion Calendar International Fashion events and their importance 	3
		Popular Domestic & International Brands	

9. Distribution of Marks

Chapter No.	Chapter Title	Туј	Total		
		Objective Type (Compulsory)	Short Question	Descriptive Question	Marks
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	Fashion events – Domestic & International	0	3	0	4
	Total	16	29	25	70

Table of Specification 1

S	Topic	OBJEC	TIVI	ΞTY	PΕ	SH		Γ AN ΓΥΡΙ	ISW] E	ER	I	ESSA	4 Y 7	ГҮРІ	Ξ
N		K	C	A	T	K	С	A	H A	T	K	С	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	Fashion events – Domestic & International	1			1	1	2			3					0
		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	С	A	НА	To tal
1	Introduction to Merchandising	6	12.5	3	1	5	0	9
2	Merchandising planning and buying	14	29	6	3	1	0	10
3	Consumer Behaviour	3	7	7	2	0	1	10
4	Marketing concept	6	12.5	4	5	0	0	9
5	Advertising	4	8	4	2	0	2	8
6	Visual Merchandising	8	16	8	1	0	1	10
7	Import / Export procedures	4	8	5	3	2	0	10
8	Fashion events – Domestic & International	3	7	2	2	0	0	4

T	1						
Total =	48	100	3 9	1 9	8	4	70

K = Knowledge C = Comprehension A = Application

HA = Higher Than Application

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 : PROFESSINAL 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.