

**GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD, GUJARAT
COURSE CURRICULUM**

Course Title: Pattern Making
(Code: - 3325101)

Diploma Programmes in which this course is offered	Semester in which offered
Computer Aided Costume Design and Dress Making	Second Semester

1. RATIONALE

Today's fashion industry is versatile and rapidly changing in trends and therefore quick response of production is very much essential. Flat pattern technique and Draping are the most important techniques employed in fashion garment industry since its inception. Therefore, a steep demand of professional and technically educated workforce of advanced pattern designing is one of the basic human resources of garment production industry. Aim of introducing this is to prepare students with a professional approach of flat pattern and draping techniques, relevant to today's fashion garment making industry. Introduction of this course is a step forward in educating students in synchronization with the needs of today's garment industry.

2. COMPETENCY

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 the following competency:

i. Create innovative pattern using appropriate basic blocks and techniques.

3. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P)	Examination Scheme				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE	PA	ESE	PA	200
2	0	4	6	70	30	40	60	

Legends: L-Lecture; T – Tutorial/Teacher Guided Theory Practice; P - Practical; C – Credit ESE - End Semester Examination; PA - Progressive Assessment.

Note: It is the responsibility of the institute heads that marks for **PA of theory & ESE and PA of practical** for each student are entered online into the GTU Portal at the end of each semester within the dates specified by GTU.

4. DETAILED COURSE CONTENT

Unit	Major Learning Outcomes	Topics and Sub-topics
Unit—I Introduction to Pattern making	1a. Explain different methods of pattern making	1.1 Importance of pattern making. 1.2 Methods of pattern making. 1.2 (i) Flat pattern method 1.2 (ii) Draping method (Give idea through demonstration on dress form) 1.2 (iii) Drafting method (Drafting of Upper & Lower Block) 1.3 Pattern making in today's world.
Unit – II Introduction to Blocks.	2a. Prepare suitable type of block for given application.	2.1 Definition of block. and types of blocks 2.1 (i) standard block 2.1 (ii) simplified block 2.1 (iii) tailoring block 2.1 (iv) trade block 2.1 (v) primary block 2.1 (vi) Secondary block 2.2 Importance of blocks.
Unit– III Techniques of Pattern Designing.	3a. Explain principles of flat pattern method and draping method of pattern designing 3b. Differentiate between Flat Pattern method and Draping method.	3.1 Material used for flat pattern and draping methods. 3.2 Methods of flat pattern 3.2 (i) Pivot method 3.2 (ii) Slash method 3.3 Principles of flat pattern method, its advantages and disadvantages. 3.4 Principles of draping, its advantages and disadvantages.
Unit– IV Garment Components	4a. Differentiate various types of sleeves. 4b. Differentiate various types of collars. 4c. Differentiate various types of cuffs.	4.1 Definition, Drafting of Basic Sleeves and types of sleeves. 4.1 (i) Set in sleeves and its varieties. 4.1 (ii) Non set in sleeves and its varieties. 4.2 Definition and Drafting of Basic Shirt & Band Collar 4.3 Types of Collars. 4.3 (i) Flat Collars and its varieties. 4.3 (ii) Raised Collars and its varieties. 4.3 (iii) Varieties in neck-lines without Collars. 4.4 Definition of Cuffs 4.4 (i) Varieties of cuffs- detachable cuff, Gauntlet cuff, barrel cuff, Beret cuff, Rollup cuff, French cuff, Button loop cuff.
Unit – V Introduction to skirt.	5a. Differentiate various types of skirts.	5.1 Definition of Skirt and Drafting of Basic Lower Blocks 5.2 Classify various types of skirts according to its length. 5.3 Differentiate between straight and circular skirts.

Unit	Major Learning Outcomes	Topics and Sub-topics
Unit – VI Sizing Systems	6a. Explain concept of sizing 6b. Describe different sizing systems	6.1 Standard Measurements 6.2 Standard Sizing

5. SUGGESTED SPECIFICATION TABLE WITH HOURS & MARKS (THEORY)

Unit No.	Unit Title	Teaching Hours	Distribution of Theory Marks			
			R Level	U Level	A Level	Total
1.	Introduction to Pattern making.	2	2	3	-	5
2.	Introduction to Blocks	2	1	2	2	5
3.	Techniques of Pattern Designing	12	5	15	10	30
4.	Garment Components	6	2	8	5	15
5.	Introduction to skirt	4	2	4	4	10
6.	Sizing Systems	2	1	2	2	5
	Total	28	12	34	24	70

Legends:R = Remember; U = Understand; A = Apply and above levels (Bloom's revised taxonomy)

Note: This specification table shall be treated as only general guideline for students and teachers. The actual distribution of marks in the question paper may vary from above table.

6. SUGGESTED LIST OF EXERCISES/PRACTICAL.

The exercises/practical should be properly designed and implemented with an attempt to develop different types of skills so that students are able to acquire the above mentioned competency. Following is the list of exercises/practical for guidance.

S. No.	Unit No.	Practical /Exercise	Approx Hours Required
1	02	Prepare upper basic block as per measurement.	02
2	02	Prepare basic block of sleeve as per measurement .	01
3	02	Prepare lower basic block as per measurement.	01
4	03	Shift One, two & three dart by pivot method (3 samples).	02
5	03	Shift One, two & three dart by slash method. (3 samples).	02
6	03	Combine two darts and three darts by pivot method. (2 samples)	02
7	03	Combine two darts and three darts by slash method. (2 samples)	02
8	03	Divide one dart and two darts by pivot method. (2 samples)	02

9	03	Divide one dart and two darts by slash method. (2 samples)	02
10	03	Combine dart and convert into seams. (2 samples)	02
11		Combine dart and convert into gathers. (2 samples)	02
12		Combine dart and convert into yoke. (2 samples)	02
13	04	Design sleeves for women garments (10 drawings)	02
14	04	Prepare set in sleeves through slash method (Total 5+1 fancy sleeve). 9.1 Gathers at top (puff sleeve) 9.2 Gathers at bottom (puff sleeve) 9.3 Gathers at top & bottom (puff sleeve) 9.4 Petal. 9.5 Bell	04
15	04	Prepare non-set in sleeves through adaptation from basic block of women garment (Total 6 sleeves) 10.1 Kimono 10.2 Raglan pointed 10.3 Raglan with round base 10.4 Square 10.5 Magyar 10.6 Dolman	04
16	04	Design flat and raised collars (10 drawings)	02
17	04	Prepare flat collars (Total 5 collars) 12.1 Peter-pan 12.2 Sailors collar 12.3 Cape collar 12.4 Cape collar with scallops at bottom 12.5 Peter pan with lace at bottom	06
18	04	Prepare raised collars. (Total 5 collars) 13.1 Chinese collar (mandarin collar) 13.2 Shirt Collar 13.3 Roll collar 13.4 Polo collar	06
19	04	Design cuffs (5 drawings)	02
20	05	Design skirts (10 drawings)	02
21	05	Prepare skirts through slash method and drafting method. 16.1 Skirt with fullness at top (Gathered skirt) 16.2 Skirt with fullness at bottom (Flared skirt) 16.3 Skirt with fullness at top & bottom (Tiered skirt) 16.4 Skirt with yoke, & belt and facing 16.5 Half umbrella (Half Circular) 16.6 Full umbrella (Full Circular) 16.7 Skirt with panels	04
22	06	Study Size Charts (discuss and prepare size chart of different countries)	02
Total			54

7. SUGGESTED LIST OF STUDENT ACTIVITIES

- 7.1 Students will prepare final pattern on fabric.
- 7.2 Students will prepare File/journal for the above mentioned Practical/ Exercise.
- 7.3 Students may be given few garment designs to be adopted using basic blocks - unit 3.
- 7.4 Student may be asked to collect photographs from internet which is related to design application of various topics.

8. SUGGESTED LEARNING RESOURCES

A. List of Books

Sr. No.	Title of Book	Author	Publication
1.	Pattern making for fashion design.	Helen Joseph - Armstrong	Dorling Kindersley (India) Pvt. Ltd
2.	Fabric, form and flat pattern cutting	Winifred Aldrich	Blackwell Publishing
3.	Pattern making for fashion design.	Helen Joseph - Armstrong	Harper Collins Publishers
4.	Pattern Grading for Women's Cloths	Gerry Cooklin	Willey –Black Well

B. List of Major Equipment/ Instrument

- Garment Pattern Making Machineries / Laser cutter
- Laser Equipment Computer Pattern Making Machine
- Automatic Garment Pattern Making Machine / Laser Cutter.
- Dress form of Sizes (UK-8,10)

C. List of Software/Learning Websites

<http://www.fibre2fashion.com>

<http://sewingandstyle.blogspot.in>

Software --- Gemini Pattern editor, Gerber Accumark, Pattern Master, Patternmaker, Design Sew, e-Telesia, Fashion Card.

9. COURSE CURRICULUM DEVELOPMENT COMMITTEE

Faculty Members from Polytechnics

- **Prof. (Mrs.) N. A. Atrey**, I/c HOD, Dept of CACD & DM, G.P.G., Ahmedabad.
- **Prof. (Ms.) U. B .Patel**, Lecturer, Dept of CACD&DM, Shri K. J. Polytechnic, Bharuch.
- **Prof. (Mrs.) B. M .Patel**, Lecturer, Dept of CACD&DM, Shri K. J. Polytechnic, Bharuch.
- **Prof.(Ku.) M. B. Panchaliya**, Lecturer, Dept of CACD&DM, Sir B. P. T. I , Bhavnagar.
- **Prof. (Mrs.) S.M. Nakrani**, Lecturer, Dept of CACD&DM, Sir B. P. T. I , Bhavnagar.

Coordinators & Faculty members from NIFT Gandhinagar

- **Prof. Pavan Godiawala**, Project Coordinator
- **Prof. Vishal Gupta**, Assoc. Professor, Fashion Design

Co-ordinator and Faculty Members from NITTTR Bhopal

- **Prof. (Mrs.) Chanchal Mehra**, Associate Professor, Department of Vocational Education and Entrepreneurship Development