

GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)**Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021)**

Semester-IV

Course Title: Fashion Illustration & Pattern Making – II

(Course Code: 4345903)

| Diploma programme in which this course is offered | Semester in which offered |
|---|---------------------------|
| Textile Design | 4 th Semester |

1. RATIONALE

The skill in fashion illustration is essential for students of fashion designing so as to develop in them the creativity. The students should be able to illustrate different types of figures & dresses in different color mediums-Portfolio provides a challenging platform for the students to demonstrate their analytical skills necessary for Fashion Designing. Thus the student should be able to design a catalogue depending on various designs themes for boutiques & domestic market/ are of their Interest. Stylization is a very effective technique of presenting illustrated work, especially when showing futuristic fashion. Along with stylized figures one normally includes working sketches to show the true proportions & detail of the garment.

2. COMPETENCY

The purpose of this course is to help the student to attain the following industry identified competency through various teaching learning experiences.

The student will be able to finalizes manipulation to create fashion garment by selecting patternmaking and drafting principles and techniques

3. COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge and the relevant soft skills associated with this competency are to be developed in the student to display the following COs:

- Students will understand terminology used in making of fashion garment
- Student will be able to use the principles of Pattern Drafting
- Student will be able to use techniques for dart manipulation
- Students will be able to select the suitable drafting and pattern making technique to construct the fashion garment

4. TEACHING AND EXAMINATION SCHEME

| Teaching Scheme (In Hours) | | | Total Credits (CI+T/2+P/2) | Examination Scheme | | | | Total Marks |
|-------------------------------|---|---|-------------------------------|--------------------|-----|-----------------|-----|----------------|
| L | T | P | | Theory Marks | | Practical Marks | | |
| | | | C | CA | ESE | CA | ESE | |
| 2 | - | 6 | 4 | 70 | 30 | 50 | 50 | 200 |

(*): Out of 30 marks under the theory CA, 10 marks are for assessment of the micro-project to facilitate integration of COs and the remaining 20 marks is the average of 2 tests to be taken during the semester for assessing the attainment of the cognitive domain UOs required for the attainment of the COs.

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

5. SUGGESTED PRACTICAL EXERCISES

The following practical outcomes (PrOs) are the sub-components of the COs. *These PrOs need to be attained to achieve the Cos.*

| S. No. | Practical Outcomes (PrOs) | Unit No. | Approx. Hrs. required |
|--------|---|----------|-----------------------|
| 1. | <p><u>Body Measurements and Parts of the Body</u></p> <ul style="list-style-type: none"> • Body Circumference Bust ,Waist , Hip • Front Bodice Centre Front (CF) Neck , Shoulder ,Neck ,Centre Shoulder to Bust , Centre Front Shoulder • Back Bodice Centre Back Neck , Centre Back Shoulder • Lower Torso Hip Depth , Centre Front Waist to Floor , Centre Front Waist to Knee , Back , Centre Back Waist to Floor • Arm Upper Arm , Arm Length | 1 | 04 |
| 2. | <p><u>Basic techniques of pattern making</u></p> <ul style="list-style-type: none"> • Drafting • Draping • Flat paper patternmaking | 1 | 04 |
| 3. | <p><u>Different tools for drafting patterns</u></p> <ul style="list-style-type: none"> • Straight pins , Pincushion , Scissors • Pencils and pens, Rulers , Curve rules • Measuring tape, Tailor’s chalk, Tracing wheels • Notch Tool , Awl Punch and Circle , Pattern paper | 1 | 04 |
| 4. | <p><u>Drafting an A-Line skirt</u></p> <ul style="list-style-type: none"> • Skirt front and back • Calculating side seam curve and front and back darts • Designing the side seam curve • Front pattern slash line , Back pattern slash line, Adding flare • Transferring remaining excess of the front dart • Transferring remaining excess of the back dart | 3 | 06 |
| | <p><u>Drafting Yokes ,Flanges ,Pin & Pleat Tucks</u></p> <ul style="list-style-type: none"> • Basic Front Yoke—Slash and Spread | 4 | 08 |

| | | | |
|-----|--|---|----|
| 5. | <ul style="list-style-type: none"> • Basic Back Yoke—Pivotal and Transfer • Back Yoke with Inverted Box Pleat • Back Yoke with Added Fullness/Gathers • Back Yoke with Action Pleat • Yoke Design Variations • Dart Flange • Flange to Waist , Flange Inset • Flange Design Variations • Pleat Tucks , Pin Tucks | | |
| 6. | <p><u>Pattern Grain lines</u></p> <ul style="list-style-type: none"> • The straight grain • The bias grain • Basic bodice front • Basic bodice back | 3 | 06 |
| 7. | <p><u>Pattern Labeling</u></p> <ul style="list-style-type: none"> • The name of the pattern • The name of the pattern piece • Size , Date • Cutting instructions • Number of pieces | 3 | 04 |
| 8. | <p><u>Dart Manipulation</u></p> <ul style="list-style-type: none"> • Style darts , Multiple darts , Style lines • Gathers , Flare , Tuck-darts , Cowl | 2 | 06 |
| 9. | <p><u>Added Fullness</u></p> <ul style="list-style-type: none"> • Equal fullness • One-sided fullness • Unequal fullness | 2 | 08 |
| 10. | <p><u>Contour Designs</u></p> <ul style="list-style-type: none"> • Cutout Necklines , Cutout Armholes • Armhole Ease , Empire Styleline • Contour Between the Busts , Strapless Designs • Shoulder Slope and Side Ease . | 2 | 08 |
| 11. | <p><u>Stitches, Seams and Edge finishes</u></p> <ul style="list-style-type: none"> • Serged Seam Finish , Overcast foot , Pinked seam finish • Edge stitch- Seam finish , Double stitched and trimmed seam finish • Zig zag seam Finish, Hand overcast seam finish (Flannel seam) • Self bound Fabric edge finish , Hemmed fell seam Finish • Turned under seam Finish (Clean finish) • Bound seam (Hong Kong seams) Finish • Picot edge Stitch , Scalloped Fabric edge • Ornamental braided edge • Fringed edges , Piped edge , Heated edge finish | 5 | 06 |
| 12. | <p><u>Drafting Pant and Pattern</u></p> | 4 | 06 |

| | | | |
|-----|--|---|----|
| | <ul style="list-style-type: none"> • Culottes , Trouser ,Slack • Jean ,Pleated Trouser, Hip hop Pant • Pocket Draft for Trouser • Cutting the Trouser Patterns • Sewing Instructions for the Pocket • Attaching the Zipper | | |
| 13. | <u>Drafting a children's basic bodice block</u> <ul style="list-style-type: none"> • Drafting: Front • Drafting : Back • Drafting :Sleeve | 5 | 06 |
| 14. | <u>Create and Design Garments and Accessories through software</u> | 5 | 08 |

Note

- i. More **Practical Exercises** can be designed and offered by the respective course teacher to develop the industry relevant skills/outcomes to match the COs. The above table is only a suggestive list.
- ii. The following are some **sample** 'Process' and 'Product' related skills (more may be added/deleted depending on the course) that occur in the above listed **Practical Exercises** of this course required which are embedded in the COs and ultimately the competency..

| S. No. | Sample Performance Indicators for the PrOs | Weightage in % |
|--------------|--|----------------|
| 1 | Students' understanding and mastery in different type of body shapes | 20 |
| 2 | Implementation of various techniques used to create various pattern designs. | 20 |
| 3 | Willingness and attitude to complete different assignment | 10 |
| 4 | Initiative regarding innovative way to complete the assignment | 20 |
| 5 | Overall preparedness and progress during the assignment. | 30 |
| Total | | 100 |

6. MAJOR EQUIPMENT/ INSTRUMENTS AND SOFTWARE REQUIRED

These major equipment with broad specifications for the PrOs is a guide to procure them by the administrators to usher in uniformity of practical in all institutions across the state.

| S. No. | Equipment Name with Broad Specifications | PrO. No. |
|--------|--|----------|
| 1 | Notch Tool , Awl Punch and Circle , Pattern paper, Scissors, Measuring tape , Straight pins , Pincushion | 1 to 14 |
| 2 | Tailor's chalk, Tracing wheels , Pencils and pens, Rulers , Curve rules | 1 to 14 |

7. AFFECTIVE DOMAIN OUTCOMES

The following **sample** Affective Domain Outcomes (ADOs) are embedded in many of the above mentioned COs and PrOs. More could be added to fulfil the development of this course competency.

- a) Follow safety practices.
- b) Practice good housekeeping.
- c) Demonstrate working as a leader/a team member.
- d) Maintain tools and equipment
- e) Follow ethical practices.

The ADOs are best developed through the laboratory/field based exercises. Moreover, the level of achievement of the ADOs according to Krathwohl's 'Affective Domain Taxonomy' should gradually increase as planned below:

- i. 'Valuing Level' in 1st year
- ii. 'Organization Level' in 2nd year.
- iii. 'Characterization Level' in 3rd year.

8. UNDERPINNING THEORY

The major underpinning theory is given below based on the higher level UOs of *Revised Bloom's taxonomy* that are formulated for development of the COs and competency. If required, more such UOs could be included by the course teacher to focus on attainment of COs and competency.

Note: *The Unit Outcomes (UOs) need to be formulated at different level of Revised Bloom's Taxonomy' to accelerate the attainment of the COs and the competency.*

| Unit | Unit Outcomes (UOs) (4 to 6 UOs at different levels) | Topics and Sub-topics |
|--|--|--|
| Unit – I Form measurements and figure analysis | 1a. Use basic human proportions 1b. Use Body Figures & Features 1c. Use figure drawing 1d. Analysis Figure for Personal Use or for Client | 1.1 Basic Human Anatomy 1.2 Center front neck , Center back neck 1.3 Center front waist , Center back waist 1.4 Bust points , Side front (princess) , Side back (princess) 1.5 Shoulder tip , Armhole ridge , Plate screw, Armhole plate |
| Unit – II Principles of pattern making | 2a. Basic block pattern 2b. Apparel pattern 2c. Dart Manipulation 2d.Added Fullness 2e.Contouring | 2.1 Modeling patternmaking 2.2 Flat patternmaking 2.3 Slash and Spread Method 2.4 Pivotal / Transfer method 2.5 Apparel Pattern 2.6 Draping Pattern Method |
| Unit – III Drafting the Basic Pattern Set | 3a. Basic Dress Foundation 3b. Torso Foundation 3c. Dress Categories 3d. Princess-Line Foundation 3e. Special Patternmaking Problems | 3.1 Creating Basic Pattern 3.2 Front Bodice Draft 3.3 Back Bodice Draft 3.4 Fitting the Bodice, Neckline, Armhole 3.5 Skirt Draft, Panel, Pegtop & Circular skirt 3.6 Sleeve Draft, Raglan & Saddle Sleeves 3.7 Completing the Pattern |

| | | |
|--|--|--|
| Unit – IV Designing with Darts ,Yoke, Styleline & Cowl | 4a. Tuck-Darts ,Pleats 4b. Types of Flares & Gathers 4c. Styleline Variations 4d. Yokes For Bodice 4e. Different types of Cowls | 4.1 Dart Clusters And Dart Equivalentents 4.2 Parallel , Asymmetric , Intersecting Dart 4.3 Classic & Armhole Princess, Panel Styleline 4.4 Basic Front & Back Yokes , Flanges 4.5 Back Cowls, Pleated Cowls, Inset Cowls |
| Unit – V Designing, drafting and construction of various part of Garment | 5a. Basic shirt collar foundation 5b. Applied & Combination collars 5c. Blouse and Sleeve Foundations 5d. Stitching Essential and its types 5e. Grown-on collar (raised) | 5.1 Flat collar (Peter Aan, Sailor, Chelsea) 5.2 Band (Mandarin, Band with ruffle) 5.3 Principle and Relationship of the Collar’s Stand, Width, and Neckline 5.4 Blouse Draft , Peasant Blouse 5.5 Lantern , Petal , Bell ,Puff ,Cap Sleeves 5.6 Edge, Chain, Lock ,Zigzag, Double Stitches |

9. SUGGESTED SPECIFICATION TABLE FOR QUESTION PAPER DESIGN

| Unit No. | Unit Title | Teaching Hours | Distribution of Theory Marks | | | |
|--------------|---|----------------|------------------------------|-----------|-----------|-------------|
| | | | R Level | U Level | A Level | Total Marks |
| I | Form measurements and figure analysis | 04 | 4 | 6 | 2 | 12 |
| II | Principles of pattern making | 06 | 4 | 4 | 4 | 12 |
| III | Drafting the Basic Pattern Set | 06 | 4 | 4 | 6 | 14 |
| IV | Designing with Darts ,Yoke, Style line & Cowl | 06 | 4 | 6 | 6 | 16 |
| V | Designing, drafting and construction of various part of Garment | 06 | 4 | 6 | 6 | 16 |
| Total | | 28 | 20 | 26 | 24 | 70 |

Legends: R=Remember, U=Understand, A=Apply and above (Revised Bloom’s taxonomy)

Note: This specification table provides general guidelines to assist students for their learning and to teachers to teach and question paper designers/setters to formulate test items/questions to assess the attainment of the UOs. The actual distribution of marks at different taxonomy levels (of R, U and A) in the question paper may slightly vary from above table.

10. SUGGESTED STUDENT ACTIVITIES

Other than the classroom and laboratory learning, following are the suggested student-related **co-curricular** activities which can be undertaken to accelerate the attainment of the various outcomes in this course: Students should perform following activities in group and prepare reports of about 5 pages for each activity. They should also collect/record physical evidences for their (student’s) portfolio which may be useful for their placement interviews:

- a) Make kurti for own by taking measurement
- b) Undertake micro-projects in teams
- c) Development of new fashion Garment
- d) Visit any fashion show

11. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES (if any)

These are sample strategies, which the teacher can use to accelerate the attainment of the various outcomes in this course:

- a) Massive open online courses (**MOOCs**) may be used to teach various topics/sub topics.
- b) Guide student(s) to take micro-projects.
- c) Blend the basic concepts with more specialized instruction
- d) Visualization, Cooperative Learning, inquiry based instruction, differentiation, effective use of technology, think-pair and share etc pedagogies can be implemented as per the enlisted course outcomes.
- e) Give at least 10 competitive problems for each course outcomes of this course
- f) Practice, practice and practice - expose students to wide range of problems
- g) About **20% of the topics/sub-topics** which are relatively simpler or descriptive in nature is to be given to the students for **self-learning**, but to be assessed using different assessment methods.
- h) With respect to **section No.10**, teachers need to ensure to create opportunities and provisions for **co-curricular activities**.
- i) Guide students on how to address issues on environment and sustainability using the knowledge of this course

12. SUGGESTED MICRO-PROJECTS

Only one micro-project is planned to be undertaken by a student that needs to be assigned to him/her in the beginning of the semester. In the first four semesters, the micro-project are group-based (group of 3 to 5). However, **in the fifth and sixth semesters**, the number of students in the group should **not exceed three**.

The micro-project could be industry application based, internet-based, workshop-based, laboratory-based or field-based. Each micro-project should encompass two or more COs which are in fact, an integration of PrOs, UOs and ADOs. Each student will have to maintain dated work diary consisting of individual contribution in the project work and give a seminar presentation of it before submission. The duration of the micro-project should be about **14-16 (fourteen to sixteen) student engagement hours** during the course. The students ought to submit micro-project by the end of the semester to develop the industry-oriented COs.

A suggestive list of micro-projects is given here. This has to match the competency and the COs. Similar micro-projects could be added by the concerned course teacher:

Suggested List of Micro-Project.

1. Product development through fashion illustration in apparels and accessories
2. Make Different Fashion garments patterns

3. Make portfolio having collection of different types seam & Stiches.

13. SUGGESTED LEARNING RESOURCES

| S. No. | Title of Book | Author | Publication with place, year and ISBN |
|--------|---|--|--|
| 1 | Patternmaking for Fashion Design | Helen Joseph-Armstrong | Pearson Education, Inc.,2006 ISBN : 978-0-13-606934-8 |
| 2 | Carr and Latham's Technology of Clothing Manufacture | David J. Tyler | Blackwell Publishing , 2008 ISBN: 1405161981 |
| 3 | Cooklin's Garment Technology for Fashion Designers | Gerry Cooklin ,Steve Hayes, John McLoughlin and Dorothy Fairclough | John Wiley & Sons Ltd , 2012 ISBN :- 9781405199742 |
| 4 | Apparel manufacturing technology | P. Ganesan , D. Gopalakrishnan, T. Karthik, | CRC Press , 2016 ISBN :- 9781315331478 |
| 5 | Dress Pattern Designing The Basic Principles of Cut and Fit | Natalie Bray | BSP Professional Books ,1986 ISBN: 9780632018819 |
| 6 | Fashion Designing & Technology | Gayatri Verma | Computech Publications ,2022 ISBN: 978-81-7317-875-7 |

14. SUGGESTED LEARNING WEBSITES

- a) <https://www.ewstfashionlab.com/basic-skirt-draping>
- b) <https://www.etelestia.com/>
- c) <https://www.fashionillustrationtribe.com/>
- d) <https://fashion-premier-academy.teachable.com/p/pattern-making-and-advanced-draping-part-5>
- e) <https://www.universityoffashion.com/disciplines/pattern-making/>
- f) <https://www.georgebrown.ca/programs/fashion-techniques-and-design>

15. PO-COMPETENCY-CO MAPPING

| Semester:- III rd | Fashion Illustration & Pattern Making – I | | | | | | |
|--|---|--------------------------|---|--|---|----------------------------|----------------------------|
| | POs | | | | | | |
| Competency & Course Outcomes | PO 1 Basic & Discipline specific knowledge | PO 2 Problem Analysis | PO 3 Design/development of solutions | PO 4 Engineering Tools, Experimentation & Testing | PO 5 Engineering practices for society, sustainability & environment | PO 6 Project Management | PO 7 Life-long learning |
| Create fashion garment by selecting patternmaking and drafting principles and techniques | | | | | | | |
| Course Outcomes | | | | | | | |
| CO a) | 3 | 1 | 1 | - | 1 | - | 3 |
| CO b) | 3 | 1 | 3 | - | 1 | - | 3 |
| CO c) | 3 | 2 | 3 | - | 1 | - | 3 |
| CO d) | 3 | 3 | 3 | - | 3 | 3 | 3 |

Legend: '3' for high, '2' for medium, '1' for low and '-' for no correlation of each CO with PO.

16. COURSE CURRICULUM DEVELOPMENT COMMITTEE

GTU Resource Persons

| Sr. No. | Name and Designation | Institute | Contact No. | Email |
|---------|---------------------------|-----------|-------------|---------------------------|
| 1. | Mr. S B Goswami, Lecturer | GPG Surat | 9377568889 | goswami.shailsh@gmail.com |
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