### GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

# Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021) Semester - III

#### CourseTitle: Basic Apparel Construction

(Course Code: 4335104)

Diploma programme in which this course is offered	Semester in which offered
Computer Aided Costume Designing and Dress Making	Third

### 1. RATIONALE

This course imparts the knowledge of Basic apparel construction of children and female using drafting and flat pattern techniques. This is a practice-based course and it would require application of most of the knowledge and skills acquired by students in other courses of first and second semester. The skills acquired by this course would help students for preparing garments at par with the industry and for creating advanced pattern design. Thus, it is a key course for garment construction for child and female.

### 2. COMPETENCY

The course content should be taught and implemented with the aim to develop different types of skills leading to the achievement of the following competency:

• Create pattern for child and female using appropriate blocks.

### 3. COURSE OUTCOMES (COs)

The practical exercises, the underpinning knowledge and the relevant soft skills associated with the identified competency are to be developed in the student for the achievement of the following COs:

- a) Prepare upper and lower block for child and female.
- b) Adapt upper and lower block of child and female.
- c) Construct different styles of upper and lower garments for child and female.
- d) Design different styles of upper and lower garments for child and female.

Teach	ing Sc	heme	Total Credits	Examination Scheme				
(Ir	n Hour	s)	(L+T+P/2)	Theory Marks Practical Marks		Total		
L	Т	Р	С	CA	ESE	СА	ESE	Marks
0	0	6	3	00	00	50*	50	100

### 4. TEACHING AND EXAMINATION SCHEME

(\*):For this practical only course, 50 marks under the practical CA has two components i.e. the assessment of micro-project, which will be done out of 10 marks and the remaining 40 marks are for the assessment of practical. This is designed to facilitate attainment of COs holistically, as there is no theory ESE.

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

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#### 5. SUGGESTED PRACTICAL EXERCISES

The following practical outcomes (PrOs) are the sub-components of the COs. They are crucial for that particular CO at the 'Precision Level' of Dave's Taxonomy related to 'Psychomotor Domain'.

Sr. No.	Practical Outcomes (PrOs)	Unit No.	Approx. Hrs. required
1	Prepare upper basic block for children (6-8 years) by drafting method.	1	04*
2	Prepare a top for a Girl (6-8 years). 2.1 Adapt child upper basic block to a top for a Girl. 2.2 Cut & stitch the adapted garment.	2	10*
3	Draft, cut & stitch the skirt for a Girl (6-8 years).	1&2	08*
4	Design a top and a skirt for a Girl (any 3).	2	04*
5	Prepare a Shirt for a Boy (6-8 years). 5.1 Adapt child upper basic block to a shirt for a Boy. 5.2 Cut & stitch the adapted garment.	2	10*
6	Draft, cut and stitch a short / capri for a Boy (6-8 years).	1 & 2	08*
7	Design a shirt and a Capri / short for Boy (6-8 years).	2	04*
8	Prepare the Upper bodice block for female (Front, Back & sleeve).	3	06*
9	<ul> <li>Prepare a top / simple kurta / frock for a female.</li> <li>9.1 Adapt the female upper bodice block to a top / simple kurta / frock.</li> <li>9.2 Cut &amp; stitch the adapted garment.</li> </ul>	4	12*
10	Draft, cut and stitch female lower garment (any one) • Skirt • Salwar • Chudidar	3 & 4	10*
11	Design a Kurta with Salwar / Chudidar / Pant for female (any 3).	4	04*
12	Design a top with skirt / trouser for female (any 3).	4	04*
	Minimum Practical Hours		84

### <u>Note</u>

- *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.

Sr. No.	Sample Performance Indicators for the PrOs	Weightage in %			
1	Planning the process for preparing the garment/block.	20			
2	Preparing the garment/block/design as per given instructions.	50			
3	Finishing of the garment/block/design.	20			
4	Presentation of the garment/block/design.	10			
	Total				

## 6. MAJOR EQUIPMENT/ INSTRUMENTS REQUIRED

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

Sr. No.	Equipment Name with Broad Specifications	PrO. No.
1.	Half Shuttle Sewing Machine	2, 3, 5, 6, 9, 10
2.	Full Shuttle Sewing Machine	2, 3, 5, 6, 9, 10

## 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 fulfill the development of this course competency.

- a) Work as a leader/a team member.
- b) Follow safety practices while using instruments and tools.
- c) Follow ethical practices.
- d) Maintain tools and instruments.

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 1<sup>st</sup> year
- ii. 'Organization Level' in 2<sup>nd</sup> year.
- iii. 'Characterization Level' in 3<sup>rd</sup> 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.

Unit	Unit Outcomes (UOs)	Topics and Sub-topics
	(4to6 UOs at different levels)	
Unit– I	1a. Draft the upper basic block	1.1 Draft the upper basic block for
	for the children.	children (6 - 8 years).
Drafting of	1b. Draft the skirt block for a	1.2 Create a paper pattern of the
the Child's	girl child.	Skirt (for a girl) and the
Bodice block	1c. Draft the shorts/capri for	Shorts/Capri (for a boy).
	a boy child.	

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Unit– II	<ol> <li>Develop different styles of upper garments for children</li> </ol>	2.1 Adapt the upper basic block to a top for a girl child.
Adaptation	2b. Develop different styles of	2.2 Prepare a top for a girl child.
of Child's upper and	lower garments for children.	2.3 Adapt the upper basic block to a shirt for a boy child.
lower block.	2c. Design different styles of	2.4 Prepare a shirt for a boy child.
	upper and lower garment	2.5 Prepare a skirt for a girl child.
	for children.	2.6 Prepare a shorts/capri for a girl child.
		2.7 Design various upper and lower garments for children.
Unit– III	3a. Draft the upper basic blocks (front, back & sleeve) for	3.1 Draft the upper basic blocks (front, back & sleeve) for the
Drafting of	female.	female as per the given
upper and	3b. Draft the lower garment	measurement.
lower block	block (salwar / chudidar /	3.2 Create a paper pattern of the
for female.	skirt) for female.	female lower garment (skirt/
		salwar/ chudidar) as per the requirement.
Unit– IV	4a. Develop the basic styles of upper garment for female.	4.1 Adapt the upper basic block of female to a top/kurta.
Adaptation	4b. Develop the lower garment	4.2 Prepare a top/kurta for a female.
of female	for female.	4.3 Prepare a lower garment for
upper and	4c. Design different styles of	female.
lower block.	upper and lower garment	4.4 Design various upper and lower
	for female.	garments for female.

# 9. SUGGESTED SPECIFICATION TABLE FOR QUESTIONPAPER DESIGN

Unit	Unit Title	Teaching	Distribution of Theory Marks				
No.		Hours	R	U	Α	Total	
NO.			Level	Level	Level	Marks	
	Not Applicable						

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

# **10.** SUGGESTED STUDENT ACTIVITIES

Other than the classroom and laboratory learning, following are the suggested studentrelated **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) Assign internet-based assignments.
- b) Give seminar on types and varieties of Children/Female garment.
- c) Undertake market survey on various types of female garment.

d) Assign teacher guided self-learning activities.

#### **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) in undertaking micro-projects.
- c) 'L' in section No. 4 means different types of teaching methods that are to be employed by teachers to develop the outcomes.
- d) 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.
- e) With respect to *section No.10*, teachers need to ensure to create opportunities and provisions for *co-curricular activities*.
- f) Guide students on how to address issues on environment and sustainability.
- g) Make students understand the relevant topic using animation, video and presentations.

### 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:

- a) Girl child party wear: Design 10 party wear for a girl child.
- **b)** Boy child party wear: Design 10 party wear for a boy child.
- c) Female party wear: Collect Pictures of female party wear garments.
- d) Female fusion wear: Design 05 fusion wear garment for female.
- e) Fabric Material: Collect suitable fabric sample for Children wear.

### 13. SUGGESTED LEARNING RESOURCES

Sr. No.	Title of Book	Author	Publication with place, year and ISBN
1	Metric Pattern Cutting for Children's Wear and baby wear	Winifred Aldrich	Wiley-Blackwell ISBN: 9781405182928 (July 2009)
2	Pattern Grading for Women's Clothes	Gerry Cooklin	John Wiley & Sons Ltd ISBN-10: 0632022957 (April 1990) ISBN-13: 978-0632022953
3	Metric Pattern Cutting	Winifred Aldrich	John Wiley and Sons Ltd ISBN-10: 0632036125 (1994) ISBN-13: 978-0632036127
4	Pattern making for Fashion design	Armstrong, Helen Joseph	Prentice Hall ISBN 10: 0136069347 (2009) ISBN 13: 9780136069348
5	Pattern Design for Children's clothes	Gloria Mortimer- Dunn	B T Batsford Ltd ISBN-10 : 0713478748(July 1996) ISBN-13 : 978-0713478747
6	Children's wear Design	Hilde Jafee Rosa Rosa	Fair Child Books ISBN: 0870057065 (January 1990) ISBN13: 9780870057069

# 14. SOFTWARE/LEARNING WEBSITES

- <u>https://books.google.co.in/books/about/Patternmaking For Fashion Design And D</u> vd.html?id=2fwcuCqTjtAC&printsec=frontcover&source=kp read button&hl=en&ne wbks=1&newbks redir=1&redir esc=y
- <u>https://en.fashionfreaks.se/patterns-and-accessories/patterns-jackets-pants-skirt/womens-jackets/</u>
- <u>https://textilelearner.net/womens-shirt-drafting-procedure/</u>
- <u>https://www.theshapesoffabric.com/2019/02/23/how-to-draft-the-basic-skirt-pattern/</u>
- <u>https://inthefolds.com/blog/2016/2/22/how-to-draft-a-bodice-block</u>
- Basics of Pattern Making & Pattern Making Basics for Garments Fibre2Fashion

### 15. PO-COMPETENCY-CO MAPPING

Semester III	Basic Apparel Construction (Course Code:4335104)						
	POs						
Competency	PO 1	PO 2	PO 3 Design/	PO 4	PO 5	PO 6	PO 7
& Course Outcomes	Basic &	Problem	development	Engineering	Engineering	Project	Life-
	Discipline	Analysis	of solutions	Tools,	practices for	Management	long
	specific			Experimenta	society,		learning
	knowledge			tion &	sustainability &		
				Testing	environment		

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Competency	Create pattern for child and female using appropriate blocks.						
Course Outcomes CO a) Prepare upper and lower block for child and female	3	3	3	3	2	3	3
CO b) Adapt upper and lower block for child and female	3	3	3	3	2	3	3
CO c) Construct different styles of upper and lower garments for child and female.	3	3	3	3	2	3	3
CO d) Design different styles of upper and lower garments for child and female.	3	3	3	-	2	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	Dr. F. V. Kugashiya			
	HOD in	BPTI, Bhavnagar	9825697874	farjana.kugashiya@gmail.com
	CACD&DM			
2	Ms. S. H. Bhatt			
	I/C HOD in	GGP, Ahmedabad	9898068580	shbhatt99@gmail.com
	CACD&DM			
3	Mrs. U. B. Patel			
	Lecturer in	SKJP, Bharuch	9825343953	ubpatel74@gmail.com
	CACD&DM			
4	Dr. P. A. Acharya			
	Lecturer in	BPTI, Bhavnagar	9427503783	pallaviacharrya@gmail.com
	CACD&DM			