



GOVERNMENT OF TAMILNADU
DIRECTORATE OF TECHNICAL EDUCATION, CHENNAI

STATE PROJECT COORDINATION UNIT
(Established under Canada India Institutional Cooperation Project)

CURRICULUM

Course Name	Garment CAD
Course Code	TEX/2020/013
Course Duration	40 Hours
Minimum Eligibility Criteria and Pre-requisites (if any)	10 th +2/Diploma/Graduates
Course Objectives	<p>Training module has been designed to provide the participants</p> <ul style="list-style-type: none"> • Understanding the basics of Garment CAD • Understanding the Designing of and Drafting of Various garments using Garment CAD software • Learning of Grading & Laying of Various garments using Garment CAD software
Course Outcomes	<p>At the end of training, the participants will be able to</p> <ul style="list-style-type: none"> • Create designs using CAD software • Know how to make Drafting using CAD software • Know how to do Grading and Laying using CAD software
Expected Job Roles	Garment Designer

TEACHING AND SCHEME OF EXAMINATION						
Course Code	Course Name	Hours		Assessment Marks		Duration of Examination
				Min	Max	
TEX/2020/013	Garment CAD	Theory	08	10	20	3 Hours
		Practical	32	40	80	
		Total	40	50	100	

TEX/2020/013- GARMENT CAD

DETAILED SYLLABUS

Unit No	Modules	No. Of Hours	
		Theory	Practical
I	Designing of Garment	10 Hours	
1.1	Introduction of Garment CAD software –Application and uses, Types of software - job opportunities in Garment CAD.	2	8
1.2	Creating a Design for a ladies night wear and colouring suitably by learning step by step procedure.		
1.3	Creating a Design for a fashion kids wear and colouring with contrast colour scheme in Garment CAD software.		
1.4	Creating a Design for a T-Shirt and colouring with suitable tint in Garment CAD software.		
1.5	Creating a Design for a ladies skirt with suitable colour combination.		
II	Drafting of Garments	10 Hours	
2.1	Drafting a pattern for Ladies T- shirt by learning step by step commands using Garment CAD software.	2	8
2.2	Drafting a pattern for Ladies Night wear using Garment CAD software.		
2.3	Drafting a pattern for Full sleeve Gents shirt using Garment CAD software.		
III	Grading of Garments	10 Hours	
3.1	Grading the given A Line frock front style to its lower and higher grades.	2	8
3.2	Grading the Full sleeve to its lower and higher grades and laying the pieces using pattern design system.		
3.3	Grading the parts of the Ladies “T” shirt to its higher grade and laying the pieces using pattern design system.		
3.4	Grading the given trouser pattern to its lower and higher grades and laying the pieces using pattern design system.		
IV	Sketching and Drawing using software	10 Hours	
4.1	Free hand sketching for gents and ladies fashion wears.	2	8
4.2	Draw the spring wear for children using relevant Garment software.		
4.3	Draw the summer wear for ladies using relevant Garment software.		
4.4	Draw the winter wear for senior citizen using any relevant software.		
4.5	Draw the stripped, checked printed and one way fabric design using any relevant software.		
Total Theory and Practical Hours		8	32
Total hours		40	

HARDWARE REQUIREMENT

S.NO	LIST OF TOOLS /EQUIPMENTS
1	Personal Computer/Laptop

SOFTWARE REQUIREMENT

Winda Design Software, Tuka Design Software

REFERENCE WEBSITE / BOOKS

1. www.fibre2fashion.com
2. www.etelestia.com
3. www.textronic.com
4. clothingindustry.blogspot.com

S.NO	NAME OF THE BOOK	AUTHOR	PUBLISHER
1	CAD in Clothing and Textiles	Stephen Nicholas Gray	Design Council
2	Soft Computing in Textile Engineering	AbhijitMajumdar	Woodhead Publishing Series in Textile
3	Pattern Cutting for Clothing using CAD	M.Stott	Woodhead Publishing

ASSESSMENT AND CERTIFICATION

S.No	Criteria for assessment
1.	A trainee will be assessed based on the performance in End Examination for Theory and Practical conducted internally in the Project Polytechnic College for a duration of 3 hours
2.	A trainee must have 75% of attendance to appear for End examination in Theory and Practical.
3.	The assessment for theory part will be based on the marks scored in the end examination on the knowledge bank of questions (1 word/objective type questions)
4.	The assessment for practical part will be based on the marks scored in the end examination conducted by the Project Polytechnic and assessed by the Examiners approved by Strategic Plan Implementation Committee (SPIC) of the project polytechnic.
5.	The passing criteria for successful completion of training is every trainee should score 50% of marks in theory and practical examination.
6.	On successful completion of training , Certificate will be issued to the participants by the Directorate of Technical Education through the Project Polytechnics.

END EXAMINATION

ALLOCATION OF MARKS

S.NO	DESCRIPTION	Max.Marks
1.	Theory Examination	20
2.	Practical Examination	
	a) Experiment	30
	b) Write up	20
	c) Result	10
	d)Record	20
Total Marks		100

THEORY MODEL QUESTION PAPER

TEX/2020/012 - GARMENT PATTERN MAKING

(Maximum Marks : 20)

(N.B: Answer any **twenty** questions)

20 x 1 = 20 Marks

1. Define garment CAD.
2. What are the advantages of garment CAD?
3. Write the classification of garment CAD software.
4. What are the job opportunities available in garment CAD?
5. What are the steps needed for creating ladies night wear?
6. Which tool is used for cutting a pattern in garment CAD software?
7. How to Draw T-shirt?
8. What are the measurements needed for ladies skirt?
9. What are the tools available in garment CAD software?
10. Write the drafting procedure for full sleeve.
11. Write about drafting procedure for A line frock.
12. What is meant by grading?
13. How to change grading page in garment CAD software.
14. Name the tools used for grading.
15. What are the materials suitable for ladies night wear?
16. Draw any fashion wear for ladies.
17. What is the software keys used for sketching?
18. How to create stripe effects?
19. Which type of garment is used for winter season?
20. What is one way design?
21. Draw checked and striped design.
22. What are the procedures used for grading a front part of shirt?
23. Define marker planning.
24. Draw any three different neck designs for frock.
25. Mention any three styles of gents garment.