

**Curriculum
For
Certificate in CAD/CAM Computerized Pattern
Designing
(Certificate Level - 6 months)
Code:VF51S016
(2013)**

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Name of the course: Certificate in CAD/CAM Computerised Pattern Designing

Overall objective of the Course

The objectives of this course are to train the people in such a way so that

- They can participate in the progress of readymade garment industry of the country.
- To increase the technical main power for CAD/CAM Computerized Pattern Designing System..
- To increase the employment.
- To fulfil the technical requirements of garment industry.
- To push them in the flow of economy, to give them confidence
- To stay able status in the society.

Competencies gained after completion of the course

At the end of the course, the trainee must be able to attain the following competencies.

- Develop Manual Pattern
- Search out Basic Knowledge of Computer
- Learn Measuring Tools and Measuring Concept
- Learn Basic Knowledge and Concept of Garment
- Organize and Maintain Work Place Environment
- Operate Gerber Grading Software
- Start Digitizing
- Create and maintain Data Storage
- Make The Pattern
- Calculate Fabric Consumption
- Communicate with Co-workers
- Make Marker
- Health and Safety
- Maintain The Record
- Develop Professionalism
- Manage Time
- Upgrade Skills

- Work In A Team

Knowledge Proficiency Details

On successful completion of course, the trainees must have acquired the following knowledge & skills:

- About IP Address
- Access Rights
- MS OFFICE
- Network Sharing
- Files conversion
- Fashion
- PDS and its versions
- Relevant CAD software
- Pattern Designing

Job Opportunities available immediately and in future

After completion of the training, candidates can find the employment opportunities in the following disciplines..

Institutes & industries in which opportunities will be available:

- Governmental institutes.
- Semi Governmental Institutes.
- Private Institutes.
- Buying Offices.
- Garment industry.

Entry requirements

- Intermediate

Minimum qualification of trainer

2 year pattern designing diploma associated with CAD/CAM.

OR

B.Sc. Textile Engineering 2- Year Industrial cum training experience in garment industry.

Medium of Instruction

- English/Urdu

Timeframe of assessment

Duration of Course	Six Months
Total Hours	800 hrs
Training Hours	765 hrs
Module Test	25 hrs
Final Test	10 hrs
Per Week Hours	30 hrs
Per Day Hours	05 hrs (6 days a week)

Overview about the program – Curriculum for Certificate in CAD/CAM Computerized Pattern Designing

Module Title & Aim	Learning units	Theory Hours	Workplace hours	Total Hours
Module1: Learn Basic Knowledge and Concept of Garment Aim: This module develops competency to get Acquaintance & understanding about the basic garment	LIU1: Types of garments Tops:Jackets, shirts, Tee-shirt, coats, blouse etc. LIU2:Types of garments Bottoms:Trouser,skirt,shorts,Capri etc. LIU3:Types of garments Under garments: Ladies under garments, Gents under garments LIU4:Types of garments Other types:Sportswear,Overall,Night dresses etc. LIU5: Parts or components Of a garment.	5	20	25
Module 2: Search Out Basic Knowledge Of Computer Aim: This module develops competency to get Acquaintance &	LU1: Operate computer software. LU2: Learn about the hardware of computers LU3: Adjust input and output devices of computer LU4: Attach Gerber devices on equipment	5	20	25

understanding about the knowledge of computer	LU5: Learn about the internet			
Module3: Operate Gerber Software Aim: This module develops competency to get Acquaintance & understanding to run the Gerber Software	LU1: Study the software manual and learn properly about the software LU2: Start with launch pad to run the Gerber software. LU3: Learn about the software applications which are connected with each other LU4: Learn about the set up making applications.	5	50	55
Module4: Organize and Maintain Work Place Environment Aim: This module develops competency to get Acquaintance & understanding to maintain and organize the working environment	LU1:Keep the work place clean and organized LU2:Keep the electronic Cables at reasonable distance LU3:Keep the electronic devices in proper running condition LU4: Keep the work environment relaxed and comfortable. LU5:Arrange the files and documents correctly	3	12	15
Module 5: Learn Measuring Tools and Measuring Concept Aim: This module develops	LU1: keep the measuring tape with yourself every time at work place LU2: keep the scale with yourself every time at work place	5	40	45

competency to get Acquaintance & understanding about the measurement concepts	LU3: Learn the measuring concepts i.e. LU4: Mark measuring Points of garment. LU5: Mark the measurements position of garment.			
Module 6: Develop Manual Pattern Aim: This module develops competency to get Acquaintance & understanding about the manual pattern	LU1: Handle the pattern cutting tools LU2: mark outlines on the pattern sheet LU3: mark the grain line LU4: Check seam allowances LU5; Make the division of size chart LU6: Develop shapes of different areas of pattern	5	65	70
Module7: Start Digitizing Aim: This module develops competency to get Acquaintance & understanding to learn the digitizing	LU1: Attach the cables of digitizer properly LU2: Place the pattern on the digitizer in prescribe way LU3: Use digitizing menu and commands for pattern digitizing. LU4: Develop nested pattern digitizing, grading points, and functions of cursor. LU5:Keep the digitizer cursor in prescribed Place after closing the work	5	55	60
Module8:	LU1:Create data storage areas in the	2	20	22

Create and maintain Data Storage Aim: This module develops competency to get Acquaintance & understanding to Store the data of Gerber Software	explorer LU2:Store data from digitizer LU3:Store data from converted files			
Module9: Knowledge of Pattern Design system (PD)and system management Aim: This module develops competency to get Acquaintance & understanding to make the computerized pattern	LU1: Evaluate tech pack LU2: Confirm base size. LU3: Make pattern using Pattern Designing Software. LU4: Make / Create rule table LU5: Apply Rule Table LU6: Make Model LU7: Grade Pattern LU8: Amend the pattern according to the fitting and shrinkage	5	70	75
Module10: Calculate Fabric Consumption Aim: This module develops competency to get Acquaintance &	LU1: Analyze and evaluate information LU2:Check fabric shrinkage and cut able width LU3: Check final size chart and garment LU4: Finalize pattern as per information	5	52	57

understanding to calculate the fabric consumption	LU5: Add fabric shrinkage in the pattern LU6: Withdraw the consumption based on marker.			
Module11: Make Marker Aim: This module develops competency to get Acquaintance & understanding to make the marker	LU1: Make size detail LU2: Write marker name LU3: Write order name LU4: Write order description and annotation and write lay limits LU5: Write fabric width LU6: Set the target of fabric utilization LU7: Add shrinkage LU8: Select proper model LU9: Write the fabric type LU10: Write the size range LU11: Check the parts of the garment LU12: Make marker according to target length. LU13: Plot the markers	5	65	70
	LU1:Maintain record of paper patterns provided by the customer LU2:Maintain record of files related to	5	25	30

Module12: Maintain The Record Aim: This module develops competency to get Acquaintance & understanding about the maintenance	measurements results LU3:Maintain record of files related to marker making LU4:Maintain the files related to maintenance of Gerber devices			
Module13: Communicate with Co-workers Aim: This module develops competency to get Acquaintance & understanding about the communication skills of job	LU1: Communicate within department LU2: Communicate with other departments. LU3: Communicate with the buyers LU4: Communicate with the buying offices LU5: Communicate with other organizations LU6: Adopt different ways of communication	5	30	35
Module14: Health and Safety Aim: This module develops competency to get Acquaintance & understanding about	LU1: Plug the cable properly LU2: Install the electric devices at reasonable distances. LU3: cover the cables properly. LU4: Install the fire alarm properly	5	25	30

health and safety	<p>LU5: Cover plotter knife properly.</p> <p>LU6: Deal with hazardous or emergency situations</p> <p>LU7: Install screen protectors for display</p> <p>LU8: Insect killer must be sprayed.</p> <p>LU9: Perform first aid procedure.</p> <p>LU10: Observe health, safety and security related procedures</p> <p>LU11: Follow workplace health safety and security requirements</p> <p>LU12: Follow the planning , organizing and safe work techniques</p>			
Module15: Develop Professionalism Aim: This module develops competency to get Acquaintance & understanding to develop the professionalism	<p>LU1:Participate in Training</p> <p>LU2:Interact with colleagues</p> <p>LU3:Consult with experts</p> <p>LU4:Participate in skill test/ competition</p>	5	25	30
Module16: Manage Time Aim: This module develops	<p>LU1:Manage time to complete the assigned work</p> <p>LU2:Manage work load as required by the management</p>	5	25	30

competency to get Acquaintance & understanding about the management of time	LU3:Prioritize tasks LU4:Meet the specified deadlines LU5:Handle the co-workers			
Module17: Upgrade Skills Aim: This module develops competency to get Acquaintance& understanding to upgrade the skills	LU1: Read relevant articles. LU2: Attend Seminars. LU3: Get training through institution. LU4: Communicate with technician and pattern advisor. LU5: Attend exhibitions. LU6: Explore Internet. LU7: Study different markets.	5	25	30
Module18: Work In A Team Aim: This module develops competency to get Acquaintance & understanding to create the team	LU1: Communicate with merchant LU2: Resolve contradictions in available information. LU3:Attend department meetings LU4: Cross check customer comments with counter sample. LU5: Keep record of data either in soft or hard form. LU6: Manage data in lead time.	5	25	30

	<p>LU7: Maintain quality standard and customer satisfaction.</p> <p>LU8: Set targets for the team.</p> <p>LU9: Perform duties and responsibilities in a positive manner</p> <p>LU10: Seek assistance from co-workers when difficulties arise</p> <p>LU11: Provide support to achieve organizational goals</p>			
Assessment Project		<div>36</div> <div>30</div>		
Total Hours		85	649	800

CAD/CAM Curriculum Contents

Module 1 Title: Learn Basic Knowledge and Concept of Garment

Objective of the Module: To get understanding about the basic knowledge and concept of garment

Duration: 25hours

Theory: 5hours

Practice: 20hours

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Types of garments Tops: Jackets, shirts, Tee-shirt, coats , blouse etc.	<ul style="list-style-type: none"> ✓ Understand about the types of garments ✓ Able to recognize the type of garment 	<ul style="list-style-type: none"> ✓ Knowledge about the garment type Jackets, shirts, Tee-shirts, coats, blouse.. ✓ Ability to work with the specified type of garment 	5	Garments	Workshop/class room
LU2:Types of garments Bottoms: Trouser,skirt,shorts, Capri etc.	<ul style="list-style-type: none"> ✓ Understand about the types of garments ✓ Able to recognize the type of garment 	<ul style="list-style-type: none"> ✓ Knowledge about the garment type Bottoms, Trouser, skirts shorts, Capri etc. ✓ Ability to work with the specified type of garment 	5	Garments	Workshop/class room
LU3:Types of garments	<ul style="list-style-type: none"> ✓ Understand about the types 		5	Garments	Workshop/class room

Under garments: Ladies under garments Gents under garments	of garments ✓ Able to recognize the type of garment	✓ Knowledge about the garment type Ladies Under garments ✓ Ability to work with the specified type of garment Gents Under garments			
LU4:Types of garments Other types: Sportswear Overall Night dresses etc.	✓ Understand about the types of garments ✓ Able to recognize the type of garment	✓ Knowledge about the garment type Sports wear , Night dresses. ✓ Ability to work with the specified type of garment	5	Garments	Workshop/class room
LU5: Parts or components Of a garment	✓ Understand about the parts of garment ✓ Able to recognize the parts of garment	✓ Knowledge about the parts of a garment Parts of Garment like in Jeans, Front Panel, Back panel, Back Pockets. ✓ Ability to analyze the parts of a garment	5	Different components of Garments(front panel, back panel, yoke, facing etc)	Workshop/class room

Module 2 Title: Search Out Basic Knowledge of Computer**Objective of the Module:** To get understanding about the basic knowledge of computer**Duration:** 25hours**Theory:** 5hours**Practice:** 20hours

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Operate computer soft wares.	<ul style="list-style-type: none">✓ Understand to operate the computer✓ Able to operate the computer	<ul style="list-style-type: none">✓ Knowledge of using the computer soft wares✓ Ability to work on computer applications	6.25	Monitor/LCD, CPU, etc	Workshop/class room
LU2: Learn about the hardware of computers	<ul style="list-style-type: none">✓ Understand about hardware of computer✓ Able to use the hardware of computer properly	<ul style="list-style-type: none">✓ Knowledge of using the keyboard, mouse, printer, scanner etc.✓ Ability to work with computer hardware	6.25	Keyboard, Mouse, Printers, Scanners etc.	Workshop/class room
LU3: Attach Gerber devices on equipment	<ul style="list-style-type: none">✓ Understand about the Gerber devices	<ul style="list-style-type: none">✓ Knowledge of using the digitizing	6.25	Plotter, Digitizing table etc	Workshop/class room

	<ul style="list-style-type: none"> ✓ Able to attach the Gerber devices with cpu etc. 	<ul style="list-style-type: none"> table and plotter etc ✓ Ability to work with Gerber devices 			
LU4: Learn about the internet	<ul style="list-style-type: none"> ✓ Understand about the internet ✓ Able to use the internet 	<ul style="list-style-type: none"> ✓ Knowledge of using the internet properly ✓ Ability to explore the net connection 	6.25	Internet connection etc	Workshop/class room

Module3 Title: Operate Gerber Software**Objective of the Module:** To get understanding about the Gerber software**Duration: 55hours****Theory: 5hours****Practice: 50hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Study the software manual and learn properly about the software	<ul style="list-style-type: none">✓ Understand about the software✓ Able to start the work with software	<ul style="list-style-type: none">✓ Knowledge of Gerber software✓ Ability to work with Gerber software	13.75	Software manual, Computer	Workshop/class room
LU2: Start with launch pad to run the Gerber software.	<ul style="list-style-type: none">✓ Understand about the launch pad of software✓ Able to start work with launch pad	<ul style="list-style-type: none">✓ Knowledge of Gerber software applications✓ Ability to use the Gerber launch pad	13.75	computer	Workshop/class room
LU3: Learn about the software applications which are connected with each other	<ul style="list-style-type: none">✓ Understand way of working of the software✓ Able to work with the software applications	<ul style="list-style-type: none">✓ Knowledge of working the software applications✓ Ability to run the software	13.75	computer	Workshop/class room
LU4: Learn about the set up making applications.	<ul style="list-style-type: none">✓ Understand the supporting applications of the software✓ Able to make the set up of application	<ul style="list-style-type: none">✓ Knowledge of making the set up files✓ Ability to run the software	13.75	computer	Workshop/class room

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Module 4 Title: Organize and Maintain Work Place Environment

Objective of the Module: To get understanding about the organization and maintenance of work place environment

Duration: 15hours

Theory: 3hours

Practice: 12hours

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1:Keep the work place clean and organized	<ul style="list-style-type: none"> ✓ Understand about the cleanliness of work station ✓ Able to work at clean and organized work station 	<ul style="list-style-type: none"> ✓ Knowledge about cleanliness and organizing the files, computer, printer etc ✓ Ability to work at comfortable and organized work station 	3	Files, Computer, Office table, Chairs, Computer devices etc	Workshop/class room
LU2:Keep the electronic Cables at reasonable distance	<ul style="list-style-type: none"> ✓ Understand to fix the cables in proper place ✓ Able to work at safe work station 	<ul style="list-style-type: none"> ✓ Knowledge about electricity planning ✓ Ability to work at safe, comfortable and organized workstation 	3	Electric cables etc	Workshop/class room
LU3:Keep the electronic devices in proper running condition	<ul style="list-style-type: none"> ✓ Understand to use the devices with proper way ✓ Able to work smoothly 	<ul style="list-style-type: none"> ✓ Knowledge to on or off the devices properly ✓ Ability to work with smooth flow 	3	Computer, Plotter, Digitizer etc	Workshop/class room

LU4: Keep the work environment relaxed and comfortable.	<ul style="list-style-type: none"> ✓ Understand the requirements of the environment ✓ able to work with comfortable working environment 	<ul style="list-style-type: none"> ✓ Knowledge to work with relaxed mental conditions ✓ Ability to work with comfortably 	3	Books, Manuals etc	Workshop/class room
LU5: Arrange the files and documents correctly	<ul style="list-style-type: none"> ✓ Understand to arrange the documents etc ✓ Able to work with arranged manners 	<ul style="list-style-type: none"> ✓ Knowledge to organize the workstation ✓ Ability to work in a systemize environment 	3	Record register etc	Workshop/class room

Module 5 Title: Learn Measuring Tools and Measuring Concept**Objective of the Module:** To get understanding about the measuring tools and measuring concepts**Duration: 45hours****Theory: 5hours****Practice: 40hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: keep the measuring tape with yourself every time at work place	<ul style="list-style-type: none">✓ Understand about the inches tape✓ Able to use the measuring tape	<ul style="list-style-type: none">✓ Knowledge of inches, cm etc✓ Ability to work with inches tape	9	Inches tape	Workshop/class room
LU2: keep the scale with yourself every time	<ul style="list-style-type: none">✓ Understand about the scale✓ Able to use the scale	<ul style="list-style-type: none">✓ Knowledge of inches, cm etc✓ Ability to work with scale	9	scale	Workshop/class room
LU3: Learn the measuring concepts i.e	<ul style="list-style-type: none">✓ Understand about the measuring concept of customer✓ Able to measure the garment	<ul style="list-style-type: none">✓ Knowledge of measuring concepts✓ Ability to measure the garment according to customer concept	9	Inches tape, Garment.	Workshop/class room
LU4: Mark measuring Points of garment	<ul style="list-style-type: none">✓ Understand about measuring point✓ Able to analyze the measuring points	<ul style="list-style-type: none">✓ Knowledge of measuring point of a garment✓ Ability to mark and	9	Inches tape. Garment.	Workshop/class room

		measure the measuring points			
LU5: Mark the measurements position of garment.	<ul style="list-style-type: none"> ✓ Understand about the measuring positions of garment. ✓ Able to analyze the positions of Measurement 	<ul style="list-style-type: none"> ✓ Knowledge of the positions of measurement ✓ Ability to understand the positions measuring points 	9	Inches tape, Garment.	Workshop/class room

Module 6 Title: Develop Manual Pattern**Objective of the Module:** To get understanding about the manual pattern making**Duration: 70hours****Theory: 5hours****Practice: 65hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Handle the pattern cutting tools	<ul style="list-style-type: none">✓ Understand the handling and usage of pattern cutting tools✓ Able to handle the tools of pattern cutting	<ul style="list-style-type: none">✓ Knowledge of using the scissors and tracer etc.✓ Ability to use and understand the pattern cutting tools	11.66	Pattern cutting table, scissor, tracer	Workshop/class room
LU2: mark outlines on the pattern sheet	<ul style="list-style-type: none">✓ Understand to mark the basic outlines of pattern✓ Able to draw the initial lines of pattern	<ul style="list-style-type: none">✓ Knowledge of taking the initial steps of pattern making✓ Ability to start the pattern Making	11.66	Led pencil, scale, inches tape	Workshop/class room
LU3: mark the grain line	<ul style="list-style-type: none">✓ Understand the base of pattern✓ Able to draw the body lines of pattern	<ul style="list-style-type: none">✓ Knowledge of drawing the grain line✓ Ability to draw the basic blocks	11.66	Scale, Led pencil,	Workshop/class room
LU4: Check seam allowances	<ul style="list-style-type: none">✓ Understand the seam allowances of the pattern	<ul style="list-style-type: none">✓ Knowledge of seam allowances✓ Ability to draw the seam allowances	1.66	Pencil	Workshop/class room

	✓ Able to analyze the seam allowances				
LU5; Make the division of size chart	<ul style="list-style-type: none"> ✓ Understand the size chart ✓ Able to divide the size chart 	<ul style="list-style-type: none"> ✓ Knowledge of using the size chart ✓ Ability to use the division of size chart 	11.66	Size chart	Workshop/class room
LU6: Develop shapes of different areas of pattern	<ul style="list-style-type: none"> ✓ Understand the shapes of pattern ✓ Able to make the pattern shapes 	<ul style="list-style-type: none"> ✓ Knowledge of using the set square and shaping tools etc ✓ Ability to develop the pattern 	11.6	Set square, Shaping tools etc	Workshop/class room

Module 7 Title: Start Digitizing**Objective of the Module:** To get understanding about the digitizing**Duration: 60hours****Theory: 5hours****Practice: 55hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Attach the cables of digitizer properly	<ul style="list-style-type: none">✓ Understand to attach the cables✓ Able to start the digitizer	<ul style="list-style-type: none">✓ Knowledge of starting the digitizer✓ Ability to run the digitizer	12	Digitizer cables, Digitizer.	Workshop/class room
LU2: Place the pattern on the digitizer in prescribe way	<ul style="list-style-type: none">✓ Understand to place the pattern on the digitizer✓ Able to paste the pattern	<ul style="list-style-type: none">✓ Knowledge of patching the pattern on the digitizer✓ Ability to start digitizing	12	Digitizer, Hard pattern, tape	Workshop/class room
LU3: Use digitizing menu and commands for pattern digitizing.	<ul style="list-style-type: none">✓ Understand the digitizer working✓ Able to analyze digitizer menu	<ul style="list-style-type: none">✓ Knowledge of using digitizer✓ Ability to digitize the pattern	12	Digitizer, Hard pattern, tape	Workshop/class room
LU4: Develop nested pattern digitizing, grading points, and functions of cursor	<ul style="list-style-type: none">✓ Understand the commands to digitize the nested pattern✓ Able to start nested digitizing	<ul style="list-style-type: none">✓ Knowledge of using nested digitizing commands✓ Ability to digitize nested pattern	12	Digitizer, Hard pattern, tape	Workshop/class room

<i>LU5:Keep the digitizer cursor in prescribed Place after closing the work</i>	<ul style="list-style-type: none"> ✓ Understand to place the cursor ✓ Able to close the work 	<ul style="list-style-type: none"> ✓ Knowledge close digitizing ✓ Ability to complete the work 	12	Digitizer, Hard pattern, tape	<i>Workshop/class room</i>
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Module 8 Title: Create and maintain Data Storage**Objective of the Module:** To get understanding about the creation and maintenance of data storage**Duration: 22hours****Theory: 2hours****Practice: 20hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Create data storage areas in the explorer	<ul style="list-style-type: none">✓ Understand about the creation of data storage areas✓ able to create storage areas	<ul style="list-style-type: none">✓ Knowledge of creating storage areas✓ Ability to store the patterns Etc.	7.33	computer	Workshop/class room
LU2: Store data from digitizer	<ul style="list-style-type: none">✓ Understand to store the data from digitizer✓ Able to convert the data from digitizer	<ul style="list-style-type: none">✓ Knowledge of using the data converter✓ Ability to work with the converted data	7.33	computer	Workshop/class room
LU3: Store data from converted files	<ul style="list-style-type: none">✓ Understand to store the data from other files etc.✓ Able to convert the data from other files	<ul style="list-style-type: none">✓ Knowledge of converting different type of files✓ Ability to work with the converted data	7.33	computer	Workshop/class room

Module 9 Title: Knowledge of Pattern Design system (PDS) and System Management**Objective of the Module:** To get understanding about the computerized pattern making**Duration: 75hours****Theory: 5hours****Practice: 70hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Evaluate tech pack	<ul style="list-style-type: none">✓ Understand to analyze the tech pack✓ Able to evaluate the technical book	<ul style="list-style-type: none">✓ Knowledge to understand the customer requirements✓ Ability to work with the tech pack	9.38	Technical book etc	Workshop/class room
LU2: Confirm base size	<ul style="list-style-type: none">✓ Understand about the base size✓ Able to analyze the base size	<ul style="list-style-type: none">✓ Knowledge of making base size✓ Ability about the identification of base size	9.38	Computer Technical package	Workshop/class room
LU3: Make pattern using Pattern Designing Software.	<ul style="list-style-type: none">✓ Understand about the making of pattern✓ Able to start the pattern making	<ul style="list-style-type: none">✓ Knowledge of using (PDS) pattern design system✓ Ability to create the pattern in pattern design system	9.38	Computer Technical package	Workshop/class room
LU4: Make / Create rule table	<ul style="list-style-type: none">✓ Understand about the rule table✓ Able to make the	<ul style="list-style-type: none">✓ Knowledge of making rule table✓ Ability to create the rule table	9.38	Computer Technical package	Workshop/class room

	rule table				
LU5: Apply Rule Table	<ul style="list-style-type: none"> ✓ Understand to apply the rule table ✓ Able to apply the rule table 	<ul style="list-style-type: none"> ✓ Knowledge of using the rule table ✓ Ability to work with the rule table 	9.38	Computer Technical package	Workshop/class room
LU6: Make Model	<ul style="list-style-type: none"> ✓ Understand about the model ✓ Able to make the model 	<ul style="list-style-type: none"> ✓ Knowledge of using the model ✓ Ability to work with model 	9.38	Computer Technical package	Workshop/class room
LU7: Grade Pattern	<ul style="list-style-type: none"> ✓ Understand about the grading ✓ Able to grade the pattern 	<ul style="list-style-type: none"> ✓ Knowledge to grade the pattern ✓ Ability to work with the graded pattern 	9.38	Computer Technical package	Workshop/class room
LU8: Amend the pattern according to the fitting and shrinkage	<ul style="list-style-type: none"> ✓ Understand about the amendments ✓ Able to amend the pattern 	<ul style="list-style-type: none"> ✓ Knowledge to make the amendments ✓ Ability to make the amendments 	9.38	Computer Technical package	Workshop/class room

Module 10 Title: Calculate Fabric Consumption**Objective of the Module:** To get understanding about the calculation of fabric consumption**Duration: 57hours****Theory: 5hours****Practice: 52hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Analyze and evaluate information	<ul style="list-style-type: none">✓ Understand to evaluate the information✓ Able to analyze the information	<ul style="list-style-type: none">✓ Knowledge of using the information✓ Ability to work according to information	9.5	Fabric width, Shrinkage, Size rang, Size chart etc	Workshop/class room
LU2:Check fabric shrinkage and cut able width	<ul style="list-style-type: none">✓ Understand about the shrinkage and fabric width✓ Able to analyze the shrinkage and fabric width	<ul style="list-style-type: none">✓ Knowledge of shrinkage an fabric width✓ Ability to check the fabric width and shrinkage	9.5	Fabric width, Shrinkage, etc	Workshop/class room
LU3: Check final size chart and garment	<ul style="list-style-type: none">✓ Analyze the garment and size chart✓ Able to understand the size chart and garment	<ul style="list-style-type: none">✓ Knowledge about the fabric consumption✓ Ability to finalize the size chart and garment	9.5	Size chart, Garment.etc	Workshop/class room
LU4: Finalize pattern as per	<ul style="list-style-type: none">✓ Analyze the size	<ul style="list-style-type: none">✓ Knowledge to check the	9.5	Size chart, Garment.etc	Workshop/class room

information	range in size chart ✓ Able to select the pattern according to the requirements	Final pattern ✓ Ability to finalize the information			
LU5: Add fabric shrinkage in the pattern	✓ Understand to add the shrinkage in the pattern ✓ Able to analyze the pattern with shrinkage	✓ Knowledge to use the pattern with added shrinkage ✓ Ability to work with shrinkage added pattern	9.5	Computer	Workshop/class room
LU6: Withdraw the consumption based on marker.	✓ Understand to make the marker for consumption ✓ Able to analyze the marker for consumption	✓ Knowledge to draw the marker for consumption ✓ Ability to finalize the consumption	9.5	computer	Workshop/class room

Module 11 Title: Make Marker**Objective of the Module:** To get understanding about the marker making**Duration: 70hours****Theory: 5hours****Practice: 65hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Make size detail	<ul style="list-style-type: none">✓ Understand about the size detail✓ Able to make the size detail	<ul style="list-style-type: none">✓ Knowledge of using the size detail✓ Ability to work with the size detail	5.38	Computer, Order quantity,	Workshop/class room
LU2: Write marker name	<ul style="list-style-type: none">✓ Understand about the marker name✓ Able to write the marker name	<ul style="list-style-type: none">✓ Knowledge of order processing✓ Ability to start order processing	5.38	computer	Workshop/class room
LU3: Write order name	<ul style="list-style-type: none">✓ Understand about the order name✓ Able to write the order name	<ul style="list-style-type: none">✓ Knowledge of order processing✓ Ability to work with order editor	5.38	computer	Workshop/class room
LU4: Write order description and annotation and write lay limits	<ul style="list-style-type: none">✓ Understand about the order description etc✓ Able to write the order description	<ul style="list-style-type: none">✓ Knowledge of order processing✓ Ability to work with order editor	5.38	computer	Workshop/class room
LU5: Write fabric		<ul style="list-style-type: none">✓ Knowledge of	5.38	computer	Workshop/class room

width	<ul style="list-style-type: none"> ✓ Understand to write the fabric width ✓ Able to analyze the fabric width 	<ul style="list-style-type: none"> using the fabric width ✓ Ability to check the fabric width 			
LU6: Set the target of fabric utilization	<ul style="list-style-type: none"> ✓ Understand to set the fabric utilization ✓ Able to analyze the target utilization 	<ul style="list-style-type: none"> ✓ Knowledge of using the target utilization ✓ Ability to work with adjusted target utilization 	5.38	computer	Workshop/class room
LU7: Add shrinkage	<ul style="list-style-type: none"> ✓ Understand to add the shrinkage ✓ Able to analyze the added shrinkage 	<ul style="list-style-type: none"> ✓ Knowledge of using the shrinkage format ✓ Ability to work order shrinkage 	5.38	computer	Workshop/class room
LU8: Select proper model	<ul style="list-style-type: none"> ✓ Understand to select the model ✓ Able to check the model 	<ul style="list-style-type: none"> ✓ Knowledge of using the model ✓ Ability to select the right model 	5.38	computer	Workshop/class room
LU9: Write the fabric type	<ul style="list-style-type: none"> ✓ Understand to write the fabric type ✓ Able analyze the fabric type 	<ul style="list-style-type: none"> ✓ Knowledge of using the fabric type ✓ Ability to work with fabric types 	5.38	computer	Workshop/class room
LU10: Write the size range	<ul style="list-style-type: none"> ✓ Understand to write the size quantity 	<ul style="list-style-type: none"> ✓ Knowledge of 	5.38	computer	Workshop/class room

	<ul style="list-style-type: none"> ✓ Able to analyze the size range 	<ul style="list-style-type: none"> using the size quantity ✓ Ability to work with the quantity of sizes 			
LU11: Check the parts of the garment	<ul style="list-style-type: none"> ✓ Understand to check the parts of garment ✓ Able to analyze the parts of garment 	<ul style="list-style-type: none"> ✓ Knowledge of analyzing the parts of garment and starting marker ✓ Ability to start the marker 	5.38	computer	Workshop/class room
LU12: Make marker according to target length.	<ul style="list-style-type: none"> ✓ Understand about the making of marker ✓ Able to start the marker 	<ul style="list-style-type: none"> ✓ Knowledge of using the marker making ✓ Ability to work with the marker making 	5.38	computer	Workshop/class room
LU13: Plot the markers	<ul style="list-style-type: none"> ✓ Understand to plot the marker ✓ Able to analyze this application 	<ul style="list-style-type: none"> ✓ Knowledge to plot the marker ✓ Ability to work with marker plotting 	5.38	computer	Workshop/class room

Module 12 Title: Maintain the Record**Objective of the Module:** To get understanding about the maintenance of records**Duration:** 30hours**Theory:** 5hours**Practice:** 25hours

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1:Maintain record of paper patterns provided by the customer	<ul style="list-style-type: none">✓ Understand to maintain the record related customer paper patterns✓ Able to analyze the paper patterns	<ul style="list-style-type: none">✓ Knowledge of making the system to maintain the record✓ Ability to work with the paper patterns	7.5	Paper patterns Files etc.	Workshop/class room
LU2:Maintain record of files related to measurements results	<ul style="list-style-type: none">✓ Understand to maintain the record related measurements results✓ Able to analyze the record related measurements	<ul style="list-style-type: none">✓ Knowledge of making the system to maintain the record✓ Ability to work with the measurements result	7.5	Files etc	Workshop/class room
LU3:Maintain record of files related to marker making	<ul style="list-style-type: none">✓ Understand to maintain the record related marker making	<ul style="list-style-type: none">✓ Knowledge of making the system to maintain the record	7.5	files	Workshop/class room

	<ul style="list-style-type: none"> ✓ Able to analyze the record related marker making 	<ul style="list-style-type: none"> ✓ Ability to work with the marker making files 			
LU4:Maintain the files related to maintenance of Gerber devices	<ul style="list-style-type: none"> ✓ Understand to maintain the record related Gerber devices ✓ Able to analyze the record related Gerber devices 	<ul style="list-style-type: none"> ✓ Knowledge of making the system to maintain the record ✓ Ability to work with the Gerber devices 	7.5		Workshop/class room

Module 13 Title: Communicate with Co-workers**Objective of the Module:** To get understanding about the communication with co-worker**Duration:** 35hours**Theory:** 5hours**Practice:** 30hours

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Communicate within department	<ul style="list-style-type: none">✓ Understand to communicate with the department✓ Able to analyze the information	<ul style="list-style-type: none">✓ Knowledge of using the information✓ Ability to work with the department	5.83	Technical book, Size chart, etc	Workshop/class room
LU2: Communicate with other departments	<ul style="list-style-type: none">✓ Understand to communicate with other departments✓ Able to analyze the information	<ul style="list-style-type: none">✓ Knowledge of using the information✓ Ability to work with the other department	5.83	Technical book, Size chart, etc	Workshop/class room
LU3: Communicate with the buyers	<ul style="list-style-type: none">✓ Understand to communicate with the buyers✓ Able to analyze the information	<ul style="list-style-type: none">✓ Knowledge of using the information✓ Ability to work with the buyer	5.83	Technical book, Size chart, Telecommunication, Emails, etc	Workshop/class room
LU4:		<ul style="list-style-type: none">✓ Knowledge of	5.83	Technical book,	Workshop/class room

Communicate with the buying offices	<ul style="list-style-type: none"> ✓ Understand to communicate with the Buying offices ✓ Able to analyze the information 	<ul style="list-style-type: none"> using the information ✓ Ability to work with the buying office 		Size chart, Telecommunication, Emails, etc	
LU5: Communicate with other organizations	<ul style="list-style-type: none"> ✓ Understand to communicate with other organizations ✓ Able to analyze the information 	<ul style="list-style-type: none"> ✓ Knowledge of using the information ✓ Ability to work with other organizations 	5.83	Technical book, Size chart, Telecommunication, Emails, etc	Workshop/class room
LU6: Adopt different ways of communication	<ul style="list-style-type: none"> ✓ Understand about the ways of communication ✓ Able to communicate 	<ul style="list-style-type: none"> ✓ Knowledge of using the sources of communication ✓ Ability to work with different modes of communication 	5.83	Direct communication Telecommunication, Emails, Fax, etc	Workshop/class room

Module 14 Title: Health and Safety**Objective of the Module:** To get understanding about the Health and Safety**Duration: 30hours****Theory: 5hours****Practice: 25hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Plug the cable properly	<ul style="list-style-type: none">✓ Understand to plug the electronic cables✓ Able to analyze the cables	<ul style="list-style-type: none">✓ Knowledge to plugging the cables properly✓ Ability to work smoothly and properly	2.5	Computer, Printer, Plotter, Digitizer, etc	Workshop/class room
LU2: Install the electric devices at reasonable distances.	<ul style="list-style-type: none">✓ Understand to install the electronic devices✓ Able to maintain the safety	<ul style="list-style-type: none">✓ Knowledge about the installation of electronic devices✓ Ability to work safely	2.5	Computer, Printer, Plotter, Digitizer, etc	Workshop/class room
LU3: cover the cables properly.	<ul style="list-style-type: none">✓ Understand to cover the cable properly✓ Able to analyze the cables	<ul style="list-style-type: none">✓ Knowledge to cover the cables✓ Ability work safely	2.5	Computer, Printer, Plotter, Digitizer, etc	Workshop/class room
LU4: Install the fire alarm properly	<ul style="list-style-type: none">✓ Understand to install the fire alarm	<ul style="list-style-type: none">✓ Knowledge of using the fire alarm✓ Ability to work	2.5	Fire alarm	Workshop/class room

	<ul style="list-style-type: none"> ✓ Able to analyze the fire alarm 	healthy and safely			
LU5: Cover plotter knife properly.	<ul style="list-style-type: none"> ✓ Understand to cover the plotter knife ✓ Able to analyze knife cover 	<ul style="list-style-type: none"> ✓ Knowledge of using the plotter knife ✓ Ability to work with plotter knife 	2.5	Plotter knife	Workshop/class room
LU6: Deal with hazardous or emergency situations	<ul style="list-style-type: none"> ✓ Understand to deal with hazardous etc ✓ Able to analyze emergency situations 	<ul style="list-style-type: none"> ✓ Knowledge of using health and safety equipment ✓ Ability to work safely 	2.5	Fire calendars, Knife cover, Screen protector,	Workshop/class room
LU7: Install screen protectors for display	<ul style="list-style-type: none"> ✓ Understand to install the screen protector ✓ Able to analyze the display 	<ul style="list-style-type: none"> ✓ Knowledge of using the screen protectors ✓ Ability to work with safe eyesight 	2.5	Computer etc.	Workshop/class room
LU8: Insect killer must be sprayed	<ul style="list-style-type: none"> ✓ Understand to spray the insect killer ✓ Able to protect the environment 	<ul style="list-style-type: none"> ✓ Knowledge of using the insect killer ✓ Ability to work with protected environment 	2.5	Insect killer,	Workshop/class room
LU9: Perform first aid procedure	<ul style="list-style-type: none"> ✓ Understand to perform the first aid procedure ✓ Able to analyze first aid 	<ul style="list-style-type: none"> ✓ Knowledge of using the first aid box ✓ Ability to do quick 	2.5	First aid box	Workshop/class room

	procedure	action in emergency			
LU10: Observe health, safety and security related procedures	<ul style="list-style-type: none"> ✓ Understand to follow the procedures ✓ Able to analyze the procedures 	<ul style="list-style-type: none"> ✓ Knowledge of using the procedures ✓ Ability to teach about the health and safety requirements 	2.5	Training materials	Workshop/class room
LU11: Follow workplace health safety and security requirements	<ul style="list-style-type: none"> ✓ Understand about workplace health and security requirements etc ✓ Able to analyze the workplace, safety And health policies 	<ul style="list-style-type: none"> ✓ Knowledge of using the policies regarding health and safety ✓ Ability to work with safe modes 	2.5		Workshop/class room
LU12: Follow the planning , organizing and safe work techniques	<ul style="list-style-type: none"> ✓ Understand to follow the organizing and safe work techniques ✓ Able to analyze the planning, organizing and safe work techniques 	<ul style="list-style-type: none"> ✓ Knowledge of using the planning, organizing and safe work techniques ✓ Ability to work with safe modes 	2.5	Training materials	Workshop/class room

Module 15 Title: Develop Professionalism**Objective of the Module:** To get understanding about the professionalism**Duration: 30hours****Theory: 5hours****Practice: 25hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1:Participate in Training	<ul style="list-style-type: none">✓ Understand to participate in training✓ Able to set the mind according to training	<ul style="list-style-type: none">✓ Knowledge of training sessions etc✓ Ability to trained the people	7.5	Training material and equipment	Workshop/class room
LU2:Interact with colleagues	<ul style="list-style-type: none">✓ Understand to interact with colleagues✓ Able to develop the relationships with colleagues	<ul style="list-style-type: none">✓ Knowledge of making the relationships✓ Ability to work comfortably , speedily and with good accuracy rate	7.5	Debates related discoveries and inventions	Workshop/class room
LU3:Consult with experts	<ul style="list-style-type: none">✓ Understand to consult with experts✓ Able to analyze the consultation	<ul style="list-style-type: none">✓ Knowledge of using the expert's opinions etc.✓ Ability to work with confidence	7.5	Debates related discoveries and inventions	Workshop/class room

LU4:Participate in skill test/competition	<ul style="list-style-type: none"> ✓ Understand to participate in skill test competitions ✓ Able to analyze the competitions 	<ul style="list-style-type: none"> ✓ Knowledge of conducting the skill test competitions ✓ Ability to conduct the skill test competitions 	7.5		Workshop/class room
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Module 16 Title: Manage Time**Objective of the Module:** To get understanding about the management of time**Duration: 30hours****Theory: 5hours****Practice: 25hour**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1:Manage time to complete the assigned work	<ul style="list-style-type: none">✓ Understand to complete the targets with in time✓ Able to analyze the targets	<ul style="list-style-type: none">✓ Knowledge to complete Assigned work✓ Ability to complete the targets	6		Workshop/class room
LU2:Manage work load as required by the management	<ul style="list-style-type: none">✓ Understand to manage the work load✓ Able to analyze the work load	<ul style="list-style-type: none">✓ Knowledge to manage the work load✓ Ability to manage the work load	6		Workshop/class room
LU3:Prioritize tasks	<ul style="list-style-type: none">✓ Understand to prioritize The tasks✓ Able to analyze the priorities	<ul style="list-style-type: none">✓ Knowledge to prioritize The tasks✓ Ability to prioritize the tasks	6		Workshop/class room
LU4:Meet the specified deadlines	<ul style="list-style-type: none">✓ Understand to meet the specified deadlines etc✓ Able analyze the	<ul style="list-style-type: none">✓ Knowledge to meet the deadlines etc✓ Ability to meet the specified deadlines	6		Workshop/class room

	specified deadlines				
LU5:Handle the co-workers	<ul style="list-style-type: none"> ✓ Understand to handle the co-workers ✓ Able to handle the co-workers 	<ul style="list-style-type: none"> ✓ Knowledge to handle the co-workers ✓ Ability to win output from co-workers 	6		

Module 17 Title: Upgrade Skills**Objective of the Module:** To get understanding to upgrade the skills**Duration: 30hours****Theory: 5hours****Practice: 25hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Read relevant articles	<ul style="list-style-type: none">✓ Understand to read the relevant articles✓ Able to read the relevant articles	<ul style="list-style-type: none">✓ Knowledge to search out The relevant articles✓ Ability to analyze the relevant articles	4.29	Information related updated software etc	Workshop/class room
LU2: Attend Seminars	<ul style="list-style-type: none">✓ Understand to attend the seminars✓ Able to attend the seminars	<ul style="list-style-type: none">✓ Knowledge of managing the seminars✓ Ability to analyze the seminars	4.29	Information related updated software etc	Workshop/class room
LU3: Get training through institution	<ul style="list-style-type: none">✓ Understand to get the training through institutions✓ Able to analyze the institutions	<ul style="list-style-type: none">✓ Knowledge of training sessions✓ Ability to trained the workers/labor	4.29	Learning material	Workshop/class room
LU4: Communicate with technician and pattern advisor.	<ul style="list-style-type: none">✓ Understand to communicate with technical experts	<ul style="list-style-type: none">✓ Knowledge of communication with technical experts	4.29	Information related updated software etc	Workshop/class room

	<ul style="list-style-type: none"> ✓ Able to communicate with technical experts 	<ul style="list-style-type: none"> ✓ Ability to work with technical expert 			
LU5: Attend exhibitions.	<ul style="list-style-type: none"> ✓ Understand to attend the exhibitions ✓ Able to attend the exhibitions 	<ul style="list-style-type: none"> ✓ Knowledge of managing the exhibitions ✓ Ability to analyze the exhibitions 	4.29	Information related updated software etc	Workshop/class room
LU6: Explore Internet.	<ul style="list-style-type: none"> ✓ Understand to explore the internet ✓ Able to analyze the internet 	<ul style="list-style-type: none"> ✓ Knowledge of using the internet ✓ Ability to work with internet 	4.29	Internet connection etc	Workshop/class room
LU7: Study different markets.	<ul style="list-style-type: none"> ✓ Understand to study different markets etc. ✓ Able to analyze the different markets 	<ul style="list-style-type: none"> ✓ Knowledge to explore the markets ✓ Ability to search out the markets 	4.29	Information related updated software etc	Workshop/class room

Module 18 Title: Work In a Team**Objective of the Module:** To get understanding about to work in a team**Duration: 30hours****Theory: 25hours****Practice: 25hours**

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Material Required	Learning Place
LU1: Communicate with merchant	<ul style="list-style-type: none">✓ Understand to communicate with merchant✓ Able to share information with merchandiser	<ul style="list-style-type: none">✓ Knowledge to discuss the matters with merchant✓ Ability to analyze the information etc	2.73	Customer tack pack, Customer comments, Counter sample	Workshop/class room
LU2: Resolve contradictions in available information.	<ul style="list-style-type: none">✓ Understand to resolve the contradictions✓ Able to analyze the information	<ul style="list-style-type: none">✓ Knowledge to tackle the matters✓ Ability to face the terrible situations	2.73	Customer tack pack, Customer comments, Counter sample Production planning material, Records, Daily plans etc	Workshop/class room
LU3:Attend department meetings	<ul style="list-style-type: none">✓ Understand to attend the department meetings✓ Able to discuss the matters in meeting	<ul style="list-style-type: none">✓ Knowledge to attend the meetings✓ Ability to organize the meetings	2.73	Production planning material, Records, Daily plans etc	Workshop/class room
LU4: Cross check customer comments with counter sample.	<ul style="list-style-type: none">✓ Understand to cross check the information	<ul style="list-style-type: none">✓ Knowledge to analyze the customer's comments etc	2.73	Customer tack pack, Customer comments, Counter sample etc	Workshop/class room

	<ul style="list-style-type: none"> ✓ Able to check and evaluate the customer's provided information 	<ul style="list-style-type: none"> ✓ Ability to work with customer's comments 			
LU5: Keep record of data either in soft or hard form.	<ul style="list-style-type: none"> ✓ Understand to keep the record ✓ Able to analyze the record 	<ul style="list-style-type: none"> ✓ Knowledge to maintain the record ✓ Ability to store or safe the data 	2.73	Production planning material, Records, Daily plans etc	Workshop/class room
LU6: Manage data in lead time.	<ul style="list-style-type: none"> ✓ Understand to manage date in lead-time ✓ Able to meet the targets 	<ul style="list-style-type: none"> ✓ Knowledge to manage the targets ✓ Ability to work in time 	2.73	Production planning material, Records, Daily plans etc	Workshop/class room
LU7: Maintain quality standard and customer satisfaction.	<ul style="list-style-type: none"> ✓ Understand to maintain quality standards etc ✓ Able to analyze the quality standards 	<ul style="list-style-type: none"> ✓ Knowledge of quality policies ✓ Ability to satisfy the customers etc 	2.73	Customer tack pack, Customer comments, etc	Workshop/class room
LU8: Set targets for the team.	<ul style="list-style-type: none"> ✓ Understand to set targets for team ✓ Able to set the team 	<ul style="list-style-type: none"> ✓ Knowledge to manage the team ✓ Ability to lead the team 	2.73	Production planning material, Records, Daily plans etc	Workshop/class room
LU9: Perform duties and responsibilities in a	<ul style="list-style-type: none"> ✓ Understand to perform the duties and responsibilities 	<ul style="list-style-type: none"> ✓ Knowledge to set the responsibilities ✓ Ability to work 	2.73	Production planning material, Records, Daily plans etc	Workshop/class room

positive manner	✓ Able to analyze the responsibilities	positively			
LU10: Seek assistance from co-workers when difficulties arise	<ul style="list-style-type: none"> ✓ Understand to seek assistance from co-workers ✓ Able to solve the difficulties 	<ul style="list-style-type: none"> ✓ Knowledge to co-ordinate with co-workers ✓ Ability to face the difficulties 	2.73	Production planning material, Records, Daily plans etc	Workshop/class room
LU11: Provide support to achieve organizational goals	<ul style="list-style-type: none"> ✓ Understand to provide support in organizational goals ✓ Able to support the team 	<ul style="list-style-type: none"> ✓ Knowledge to achieve the organizational goals ✓ Ability to support in difficulties 	2.73	Production planning material, Records, Daily plans etc	Workshop/class room

CAD/CAM Curriculum Assessment

Module 1 Title: Learn Basic Knowledge and Concept of Garment

Objective of the Module: To get understanding about the basic knowledge and concept of garment

Duration: 2hours

Theory: 0.5 hours

Practice: 1.5 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M1-LU1: Types of garments Tops: Jackets,shirts,Tee-shirt,coats,blouse etc.	0.5	1.5	Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of jacket ✓ Demonstrate the fitting of jacket 	<ul style="list-style-type: none"> ✓ Oral ✓ Practical/ Demonstration ✓ MCQs Written test 	At the end of module
M1-LU2:Types of garments Bottoms: Trouser,skirt,shorts, Capri etc.			Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of trouser ✓ Demonstrate the fitting of trouser 		
M1-LU3:Types of garments Under garments: Ladies under garments Gents under			Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of undergarments 		

garments			<ul style="list-style-type: none"> ✓ Demonstrate the fitting of undergarments 		
M1-LU4:Types of garments Other types: Sportswear Overall Night dresses etc.			Trainee will <ul style="list-style-type: none"> ✓ Explain the different types of garments ✓ Describe the different types of sportswear garments ✓ Demonstrate the fitting of sportswear garments 		
M1-LU5: Parts or components Of a garment			Trainee will <ul style="list-style-type: none"> ✓ Explain the different parts of a garment ✓ Describe the different types of back pocket ✓ Demonstrate the shapes of different types of coin pocket 		

Module 2 Title: Search Out Basic Knowledge of Computer**Objective of the Module:** To get understanding about the basic knowledge of computer**Duration:** 2 hours**Theory:** 0.5 hours**Practice:** 1.5 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M2-LU1: Operate computer software's.	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain, the different types of computer software which are used to support the Gerber software✓ Describe the usage of software✓ Demonstrate and identify different soft wares	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M2-LU2: Learn about the hardware of computers			Trainee will <ul style="list-style-type: none">✓ Explain, the different types of hardware which are attached to computer to support the Gerber software or used specially for Gerber software✓ Describe the usage of plotter, digitizer, auto cutter etc✓ Demonstrate and identify different functions of output devices of Gerber technology		
M2-LU3: Adjust input and output devices of			Trainee will <ul style="list-style-type: none">✓ Explain the types of input and output		

			<p>devices</p> <ul style="list-style-type: none"> ✓ Describe the usage of input and output devices ✓ Demonstrate and identify different input and output devices(printer, cpu, monitor, scanner etc) 		
M2-LU4: Attach Gerber devices on equipment			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain different types of Gerber devices ✓ Describe the usage of Gerber devices ✓ Demonstrate and identify the different Gerber devices 		
M2-LU5: Learn about the internet			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain what is the internet ✓ Describe the usage of internet ✓ Demonstrate and identify the most popular links of internet 		

Module 3 Title: Operate Gerber Software**Objective of the Module:** To get understanding about the Gerber software**Duration:** 2 hours**Theory:** 0.5hours**Practice:** 1.5hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M3-LU1: Study the software manual and learn properly about the software	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain about the installation of Gerber soft ware✓ Describe learning of soft ware from soft ware manual✓ Demonstrate to take initial step to start the working with soft ware	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M3-LU2: Start with launch pad to run the Gerber software.			Trainee will <ul style="list-style-type: none">✓ Explain the different versions of soft ware available in the market✓ Describe the different types of Gerber soft ware applications and their purpose✓ Demonstrate and identify the functions of launch pad		
M3-LU3: Learn about the software applications which are connected with each other			Trainee will <ul style="list-style-type: none">✓ Explain two most important applications of soft ware✓ Describe the usage of soft ware and its role in the garment industry✓ Demonstrate and identify the benefits		

			of connection of Gerber software applications		
M3-LU4: Learn about the set up making applications.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the role of annotation in the marker making ✓ Describe the usage of set up making applications ✓ Demonstrate and identify the set up making files and their role in the Gerber software 		

Module 4 Title: Organize and Maintain Work Place Environment**Objective of the Module:** To get understanding about the organization and maintenance of work place environment**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M4-LU1:Keep the work place clean and organized	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain, what means of cleanliness of work station✓ Describe the organization of workstation✓ Demonstrate and identify the set up of different work stations	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQs Written test	At the end of module
M4-LU2:Keep the electronic Cables at reasonable distance			Trainee will <ul style="list-style-type: none">✓ Explain about the electricity planning of a workstation for smooth flow of electricity and to make the workstation comfortable✓ Describe the fixation of electric cables at workstation✓ Demonstrate the planning of devices cables		
M4-LU3:Keep the electronic devices in proper running			Trainee will <ul style="list-style-type: none">✓ Explain the functions of different		

condition			<p>devices of system and Gerber software</p> <ul style="list-style-type: none"> ✓ Describe the attachment of cables with the devices ✓ Demonstrate and identify the different devices of system and Gerber Technology 		
M4-LU4: Keep the work environment relaxed and comfortable.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the characteristics of the personality for excellent working environment ✓ Describe steps to make the environment relax and comfortable ✓ Demonstrate the set up of arranged and comfortable working environment 		
M4-LU5: Arrange the files and documents correctly			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the best system to arrange the data , files and documents ✓ Describe the systemize working environment of any organization ✓ Demonstrate and identify the system to categorize the files and document under the proper heads 		

Module 5 Title: Learn Measuring Tools and Measuring Concept**Objective of the Module:** To get understanding about the measuring tools and measuring concepts**Duration: 2 hours****Theory:0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M5-LU1: keep the measuring tape with yourself every time at work place	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the conversion from inches to centimeter✓ Describe the usage of measuring tape during the measurement of a garment✓ Demonstrate and identify the different types of measuring units as per requirement of customer	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M5-LU2: keep the scale with yourself every time			Trainee will <ul style="list-style-type: none">✓ Explain the conversion from millimeters to centimeters✓ Describe the usage of scale during the measurement of small parts of a garment✓ Demonstrate and identify units in inches		
M5-LU3: Learn the measuring concepts i.e.			Trainee will <ul style="list-style-type: none">✓ Explain the different methods of measuring the seat of a garment		

			<ul style="list-style-type: none"> ✓ Describe the measurements of a garment ✓ Demonstrate and identify the different points of measurement 		
M5-LU4: Mark measuring Points of garment			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different ways of measuring the seat ✓ Describe the measuring points of a garment ✓ Demonstrate small parts measurement of a garment 		
M5-LU5: Mark the measurements position of garment.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different measuring positions of a garment ✓ Describe different ways of measuring the knee position ✓ Demonstrate the seat position of a garment 		

Module 6 Title: Develop Manual Pattern**Objective of the Module:** To get understanding about the manual pattern making**Duration: 2 hours****Theory:0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M6-LU1: Handle the pattern cutting tools	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain types of pattern cutting tools to take the initial steps(pattern cutting table)✓ Describe the right usage of pattern cutting tools at right time for making the patterns on the pattern sheets✓ Demonstrate and identify the functions of different pattern cutting tools at different steps of making the patterns (scissors,, tracer, pattern cutting table etc)	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M6-LU2: mark outlines on the pattern sheet			Trainee will <ul style="list-style-type: none">✓ Explain the initial steps to start the cutting of pattern on the pattern sheet✓ Describe the basic outline on which the drawing of pattern will be started✓ Demonstrate and identify the marking of pattern outlines through which we can make different shapes of different areas of the pattern		
M6-LU3: mark the					

grain line			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the grain line which shows the direction of pattern and which is base of pattern ✓ Describe the purpose of grain line in the pattern ✓ Demonstrate and identify how to draw the grain line in the pattern 		
M6-LU4: Check seam allowances			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain, what are the seam allowances of the patterns ✓ Describe the usage of seam allowances (sewing margins) for different operations ✓ Demonstrate and identify the seam allowances of different patterns 		
M6-LU5; Make the division of size chart			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the different types of size charts of different regions ✓ Describe the usage of size charts of any customer ✓ Demonstrate and identify the seam allowances of different operations 		
M6-LU6: Develop shapes of different areas of pattern			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the types of pattern shapes of different regions 		

			<ul style="list-style-type: none"> ✓ Describe the difference between the shapes of men's and women's crotch ✓ Demonstrate and identify the scoop area of basic five pocket jeans 		
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Module 7 Title: Start Digitizing**Objective of the Module:** To get understanding about the digitizing**Duration:** 2hours**Theory:** 0.5hours**Practice:** 1.5 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M7-LU1: Attach the cables of digitizer properly	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the type of cables which are attached with the digitizer to connect with the system and electricity✓ Describe the usage of digitizer✓ Demonstrate to take initial step to start the digitizing	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M7-LU2: Place the pattern on the digitizer in prescribe way			Trainee will <ul style="list-style-type: none">✓ Explain the placement of pattern on the digitizer✓ Describe the working area of digitizer✓ Demonstrate the prescribe way to start the digitizing of pattern		
M7-LU3: Use digitizing menu and commands for pattern digitizing.			Trainee will <ul style="list-style-type: none">✓ Explain the functions of digitizing menu commands which is made on left side of digitizer✓ Describe the way of using the commands on digitizer menu✓ Demonstrate and identify the role of grain line during the pattern digitizing		

M7-LU4: Develop nested pattern digitizing, grading points, and functions of cursor			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the nested pattern digitizing commands ✓ Describe the usage of grading points command on digitizer ✓ Demonstrate and identify the functions of cursor 		
M7-LU5:Keep the digitizer cursor in prescribed Place after closing the work			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the proper place for the cursor of digitizer ✓ Describe the way of using the cursor of a digitizer ✓ Demonstrate and identify the role of cursor during digitizing 		

Module 8 Title: Create and maintain Data Storage**Objective of the Module:** To get understanding about the creation and maintenance of data storage**Duration:** 2 hours**Theory:** 0.5hours**Practice:** 1.5 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M8-LU1:Create data storage areas in the explorer	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the creation of data storage in the Gerber explorer✓ Describe the different ways of using the Gerber explorer✓ Demonstrate the pattern working through the storage areas	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M8-LU2:Store data from digitizer			Trainee will <ul style="list-style-type: none">✓ Explain the storage of date from digitizer to Gerber explorer✓ Describe the usage of date from digitizer in the Pattern Design System(PDS)✓ Demonstrate and identify the modifications of data in edit digitizing		
M8-LU3:Store data from converted files			Trainee will <ul style="list-style-type: none">✓ Explain the different types of converters available in the Launch Pad of Gerber Technology✓ Describe the usage of converted date		

			through different converters ✓ Demonstrate and identify the conversion of different files		
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Module 9 Title: Knowledge of Pattern Design system (PDS) and System Management**Objective of the Module:** To get understanding about the computerized pattern making**Duration:** 2hours**Theory:** 0.5 hours**Practice:** 1.5 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M9-LU1: Evaluate tech pack	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the evaluation of technical pack of a customer✓ Describe the contents of a technical pack for different organizations✓ Demonstrate and identify the role of technical pack for cad cam	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M9-LU2: Confirm base size			Trainee will <ul style="list-style-type: none">✓ Explain about the base size of a pattern in men's wear etc✓ Describe the base size for different regions and gender✓ Demonstrate and identify importance of base size		
M9-LU3: Make pattern using Pattern Designing Software.			Trainee will <ul style="list-style-type: none">✓ Explain the PDS (pattern design system)✓ Describe the working style of Pattern Design System		

			<ul style="list-style-type: none"> ✓ Demonstrate and identify the role of Pattern Design System in the Gerber Software 		
M9-LU4: Make / Create rule table			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the rule table application in Gerber software ✓ Describe the usage of rules table ✓ Demonstrate and identify the purpose of rule table 		
M9-LU5: Apply Rule Table			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the implementation of rule table ✓ Describe the way of applying rule table ✓ Demonstrate and identify the role of rule table in the Pattern Design System 		
M9-LU6: Make Model			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the making of model in Gerber software ✓ Describe the usage and importance of a model ✓ Demonstrate and identify the purpose of model 		
M9-LU7: Grade			Trainee will		

Pattern			<ul style="list-style-type: none"> ✓ Explain the grading software of Gerber technology and grading of a pattern ✓ Describe the usage and importance of pattern grading ✓ Demonstrate and identify link of rule table with pattern grading 		
M9-LU8: Amend the pattern according to the fitting and shrinkage			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the amendments of pattern ✓ Describe the purpose of amendments ✓ Demonstrate and identify the role of shrinkage 		

Module 10 Title: Calculate Fabric Consumption**Objective of the Module:** To get understanding about the calculation of fabric consumption**Duration:** 2 hours**Theory:** 0.5 hours**Practice:** 1.5 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M10-LU1: Analyze and evaluate information	0.5	1.5	<p>Trainee will</p> <ul style="list-style-type: none">✓ Explain about the evaluation of information collected from different sources (merchant, cutting, fabric procurement etc)✓ Describe the way of analyzing the information of different departments etc✓ Demonstrate and identify the role of correct information for calculating fabric consumption	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M10-LU2: Check fabric shrinkage and cut able width			<p>Trainee will</p> <ul style="list-style-type: none">✓ Explain the way of checking shrinkage of fabric provided by cutting department✓ Describe the purpose of fabric shrinkage✓ Demonstrate and identify the cut able width of fabric		
M10-LU3: Check final size chart and garment			<p>Trainee will</p> <ul style="list-style-type: none">✓ Explain about the functions of size chart during the consumption process		

			<ul style="list-style-type: none"> ✓ Describe the usage of size chart for grading the pattern ✓ Demonstrate and identify the checking of garment and size chart 		
M10-LU4: Finalize pattern as per information			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the finalization of pattern for consumption ✓ Describe the usage of pattern for consumption ✓ Demonstrate and identify the source of finalizing the information 		
M10-LU5: Add fabric shrinkage in the pattern			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the way of adding shrinkage in the pattern ✓ Describe types of adding shrinkage in the pattern ✓ Demonstrate and identify effects of shrinkage on the pattern 		
M10-LU6: Withdraw the consumption based on marker.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the mathematical formula for consumption ✓ Describe the purpose of calculating consumption ✓ Demonstrate and identify the marker efficiency rate for consumption 		

Module 11 Title: Make Marker**Objective of the Module:** To get understanding about the marker making**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M11-LU1: Make size detail	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain ,what is size detail✓ Describe the usage of size detail✓ Demonstrate and identify the role of size detail for making the marker	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQs Written test	At the end of module
M12-LU2: Write marker name			Trainee will <ul style="list-style-type: none">✓ Explain about the marker name✓ Describe usage of marker name✓ Demonstrate and indentify the role of marker name		
M11-LU3: Write order name			Trainee will <ul style="list-style-type: none">✓ Explain about the order name✓ Describe usage of order name✓ Demonstrate and indentify the role of order name		
M11-LU4: Write order description and annotation and			Trainee will		

write lay limits			<ul style="list-style-type: none"> ✓ Explain about the order description ✓ Describe the usage of annotation ✓ Demonstrate and identify the purpose of lay limits etc 		
M11-LU5: Write fabric width			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the fabric width column ✓ Describe the role of fabric width in marker making ✓ Demonstrate the checking of fabric width <p>In the cutting department</p>		
M11-LU6: Set the target of fabric utilization			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the target utilization ✓ Describe the usage of target utilization ✓ Demonstrate and identify the role of target utilization in the marker making 		
M11-LU7: Add shrinkage			<ul style="list-style-type: none"> ✓ Explain about the shrinkage column in the marker making ✓ Describe the usage of shrinkage in marker making ✓ Demonstrate and identify the role of shrinkage in the marker making 		
M11-LU8: Select					

proper model			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the selection of model ✓ Describe the advantages and disadvantages of selecting the right model ✓ Demonstrate and identify proper way of selecting the right model 		
M11-LU9: Write the fabric type			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the fabric type ✓ Describe the usage of fabric type ✓ Demonstrate and identify the purpose of fabric type 		
M11-LU10: Write the size range			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the sizes of marker ✓ Describe purpose of sizes using in the marker ✓ Demonstrate and link of size range used in the marker 		
M11-LU11: Check the parts of the garment			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the checking of parts of the garment during making the marker ✓ Describe the checking process of parts of the garment ✓ Demonstrate and identify the importance of checking process 		

M11-LU12: Make marker according to target length.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the different type of target oriented marker making commands ✓ Describe the usage of commands ✓ Demonstrate and identify the achievement of target length 		

Module 12 Title: Maintain the Record**Objective of the Module:** To get understanding about the maintenance of records**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M12-LU1:Maintain record of paper patterns provided by the customer	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain about the paper pattern provided by the customer✓ Describe the usage of paper pattern provided by the customer✓ Demonstrate and identify the importance of customer provided paper pattern	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M12-LU2:Maintain record of files related to measurements results			Trainee will <ul style="list-style-type: none">✓ Explain the system about the maintenance of record✓ Describe the advantages and disadvantages of an organized system✓ Demonstrate and identify the importance of measurements results files		
M12-LU3:Maintain record of files related to marker making			Trainee will <ul style="list-style-type: none">✓ Explain the system about the		

			<p>maintenance of record</p> <ul style="list-style-type: none"> ✓ Describe the advantages and disadvantages of an organized system ✓ Demonstrate and identify the importance of marker making record 		
M12-LU4:Maintain the files related to maintenance of Gerber devices			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the system about the maintenance of record ✓ Describe the advantages and disadvantages of an organized system ✓ Demonstrate and identify the purpose of maintaining the record related to Gerber devices 		

Module 13 Title: Communicate with Co-workers**Objective of the Module:** To get understanding about the communication with co-worker**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M13-LU1: Communicate within department	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the communication within department✓ Describe the purpose of communication✓ Demonstrate and identify the benefits of departmental communication	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M13-LU2: Communicate with other departments			Trainee will <ul style="list-style-type: none">✓ Explain the communication with other departments✓ Describe the purpose of communication✓ Demonstrate and identify the benefits of communication with other departments		
M13-LU3: Communicate with the buyers			Trainee will <ul style="list-style-type: none">✓ Explain the communication with the buyer✓ Describe the purpose of communication		

			<ul style="list-style-type: none"> ✓ Demonstrate and identify the benefits of communication with the buyer 		
M13-LU4: Communicate with the buying offices			<ul style="list-style-type: none"> ✓ Explain the communication with the buying offices ✓ Describe the purpose of communication ✓ Demonstrate and identify the benefits of communication with the buying offices 		
M13-LU5: Communicate with other organizations			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the communication with other organizations ✓ Describe the purpose of communication ✓ Demonstrate and identify the benefits of communication with other organizations 		
M13-LU6: Adopt different ways of communication			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain different types of communication ✓ Describe the usage of different communication modes etc ✓ Demonstrate and identify benefits of different communication modes 		

Module 14 Title: Health and Safety**Objective of the Module:** To get understanding about the Health and Safety**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M14-LU1: Plug the cable properly	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain to plug the cable properly✓ Describe benefits of plugging the cables properly✓ Demonstrate and identify the purpose of plugging the cables properly	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQs Written test	At the end of module
M14-LU2: Install the electric devices at reasonable distances.			Trainee will <ul style="list-style-type: none">✓ Explain the installation of electric devices✓ Describe the benefits of installing the electric devices at reasonable distance✓ Demonstrate and identify the purpose of installing the devices at reasonable distance		
M14-LU3: cover the cables properly.			Trainee will <ul style="list-style-type: none">✓ Explain the coverage of electric cables		

			<ul style="list-style-type: none"> ✓ Describe benefits of covering the cables properly ✓ Demonstrate and identify the purpose of covering the cables properly 		
M14-LU4: Install the fire alarm properly			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the installation of fire alarm ✓ Describe the benefits of fire alarm ✓ Demonstrate and identify the purpose of fire alarm 		
M14-LU5: Cover plotter knife properly.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the coverage of plotter knife ✓ Describe the benefit of covering the plotter knife ✓ Demonstrate and identify the purpose of plotter knife 		
M14-LU6: Deal with hazardous or emergency situations			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to deal with hazardous ✓ Describe the different types of hazardous ✓ Demonstrate and identify the requirements of emergency situations 		
M14-LU7: Install			Trainee will		

screen protectors for display			<ul style="list-style-type: none"> ✓ Explain about the screen protectors ✓ Describe benefits of screen protectors ✓ Demonstrate and identify the purpose of screen protectors 		
M14-LU8: Insect killer must be sprayed			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the insect killers ✓ Describe the benefits of insect killers ✓ Demonstrate and identify the purpose of insect killers 		
M14-LU9: Perform first aid procedure			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the first aid procedures to secure and protect the health of labor ✓ Describe the benefits of first aid facility during the duty ✓ Demonstrate and identify the purpose of first aid facility 		
M14-LU10: Observe health, safety and security related procedures			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to observe the health, safety and security related procedures ✓ Describe the benefits of health, safety and security related procedures ✓ Demonstrate and identify the steps to take care health, safety and 		

			security related procedures		
M14-LU11: Follow workplace health safety and security requirements			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to follow the work place health, safety and security requirements ✓ Describe the different type of health, safety and security requirements ✓ Demonstrate and identify the benefits of health, safety and security requirements 		
M14-LU12: Follow the planning , organizing and safe work techniques			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain how to follow the safe work techniques ✓ Describe the different type of safe techniques ✓ Demonstrate and identify the benefits of safe techniques 		

Module 15 Title: Develop Professionalism**Objective of the Module:** To get understanding about the professionalism**Duration:** 2 hours**Theory:** 0.5 hours**Practice:** 1.5 hours

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M15-LU1:Participate in Training	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain about the participation in training for the development of professionalism✓ Describe the individual and collective benefits✓ Demonstrate and identify the role of participation in the prosperity of organization	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M15-LU2:Interact with colleagues			Trainee will <ul style="list-style-type: none">✓ Explain the types of interaction with the colleagues✓ Describe the usage of inaction for the benefits of organization✓ Demonstrate and identify the role of interaction for the benefits of organization		
M15-LU3:Consult with experts			Trainee will <ul style="list-style-type: none">✓ Explain consultation with the experts to develop the professional expertise✓ Describe the positive usage of		

			meetings		
			✓ Demonstrate and identify the benefits of meetings for the organization		
M15- LU4:Participate in skill test/ competitions			Trainee will <ul style="list-style-type: none"> ✓ Explain about the participation in skill tests or completion ✓ Describe the individual and collective benefits ✓ Demonstrate and identify the role of participation in the prosperity of organization 		

Module 16 Title: Manage Time**Objective of the Module:** To get understanding about the management of time**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M16-LU1:Manage time to complete the assigned work	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the management of time in connection with assignments✓ Describe the way of using time for assigned work✓ Demonstrate and identify the role and importance of time for the assignments	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M16-LU2:Manage work load as required by the management			Trainee will <ul style="list-style-type: none">✓ Explain work load and its management with in limited time✓ Describe to analyze and share the work load of the department✓ Demonstrate and identify the disadvantages of continues work load		
M16-LU3:Prioritize tasks			Trainee will <ul style="list-style-type: none">✓ Explain about the priority of task according to customer requirements		

			<ul style="list-style-type: none"> ✓ Describe to analyze the priorities of task keeping in view the department capacity and requirement ✓ Demonstrate and identify the importance of priorities 		
M16-LU4:Meet the specified deadlines			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the deadlines and its management within the given time ✓ Describe the steps to meet the deadlines ✓ Demonstrate and identify the benefits of meeting the deadlines 		
M16-LU5:Handle the co-workers			<ul style="list-style-type: none"> ✓ Explain the handling of co-workers to co-ordinate with them and to ensure. to get them ready in any kind of emergency ✓ Describe the way of getting the output from the co-workers keeping in view the quality standards and customer requirements ✓ Demonstrate and identify the importance of co-workers for the department 		

Module 17 Title: Upgrade Skills**Objective of the Module:** To get understanding to upgrade the skills**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M17-LU1: Read relevant articles	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the reading of relevant articles For upgrading the skills✓ Describe the effects of reading the articles to upgrade the skills✓ Demonstrate and identify the role of these activities on the career	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M17-LU2: Attend Seminars			Trainee will <ul style="list-style-type: none">✓ Explain the importance of seminars✓ Describe the usage of seminars✓ Demonstrate and identify the management of seminars		
M17-LU3: Get training through institution			Trainee will <ul style="list-style-type: none">✓ Explain about the training of institutions✓ Describe the effects of training✓ Demonstrate and identify the		

			importance of training in the career		
M17-LU4: Communicate with technician and pattern advisor.			Trainee will <ul style="list-style-type: none"> ✓ Explain the type communication with technical experts ✓ Describe the benefits of communication ✓ Demonstrate and identify the effect of communication on the career 		
M17-LU5: Attend exhibitions.			Trainee will <ul style="list-style-type: none"> ✓ Explain the importance of exhibitions ✓ Describe the usage of exhibitions ✓ Demonstrate and identify the management of exhibitions 		
M17-LU6: Explore Internet.			Trainee will <ul style="list-style-type: none"> ✓ Explain the search of related material on the internet ✓ Describe the way of using the internet for upgrading the skills ✓ Demonstrate and identify the role of internet for related topics 		
M17-LU7: Study different markets.			Trainee will <ul style="list-style-type: none"> ✓ Explain about to visits of markets to search about the updates regarding the new versions of software and hardware 		

			<ul style="list-style-type: none">✓ Describe the benefits of searching the markets✓ Demonstrate and identify the role of market research		
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Module 18 Title: Work In a Team**Objective of the Module:** To get understanding about to work in a team**Duration: 2 hours****Theory: 0.5 hours****Practice: 1.5 hours**

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M18-LU1: Communicate with merchant	0.5	1.5	Trainee will <ul style="list-style-type: none">✓ Explain the type of communication with the merchant like the functions of telephone-mail or fax etc✓ Describe the technical aspects of the discussion like discussion of comments given by the customer or different aspects of size chart provided by the customer✓ Demonstrate and identify the role of communication with the merchant for the benefits of organization	<ul style="list-style-type: none">✓ Oral✓ Practical/ Demonstration✓ MCQsWritten test	At the end of module
M18-LU2: Resolve contradictions in available information.			Trainee will <ul style="list-style-type: none">✓ Explain to resolve the contradiction in the available information✓ Describe the steps to resolve the contradiction in the available information✓ Demonstrate and identify the disadvantages of contradiction during the running process of production		
M18-LU3: Attend			Trainee will		

department meetings			<ul style="list-style-type: none"> ✓ Explain about the different topics of departmental meetings ✓ Describe the usage of meeting minutes ✓ Demonstrate and identify the role and importance of meeting in the progress of organization 		
M18-LU4: Cross check customer comments with counter sample.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the customer comments ✓ Describe the implementation of customer comments ✓ Demonstrate the cross checking with the garment 		
M18-LU5: Keep record of data either in soft or hard form.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the types of data storage ✓ Describe the usage of data which is store in either form ✓ Demonstrate and identify the importance of data 		
M18-LU6: Manage data in lead time.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the lead-time ✓ Describe the usage of lead-time ✓ Demonstrate and identify the purpose of lead-time 		

M18-LU7: Maintain quality standard and customer satisfaction.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the quality standards to produce excellent quality products ✓ Describe the implementation of different quality standards at different stages of production ✓ Demonstrate and identify the advantages of different quality standards at their related production stages 		
M18-LU8: Set targets for the team.			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about team working ✓ Describe the requirements of working together ✓ Demonstrate and identify the steps to achieve the goals of team 		
M18-LU9: Perform duties and responsibilities in a positive manner			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain the passion of positive thinking during the duty ✓ Describe the benefits of positive thinking for the company ✓ Demonstrate and identify the effects of positive thinking on the career 		
M18-LU10: Seek assistance from co-workers when difficulties arise			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the difficulties during duty 		

			<ul style="list-style-type: none"> ✓ Describe the solutions of difficulties arise during the duty ✓ Demonstrate and identify co-operation with co-workers 		
M18-LU11: Provide support to achieve organizational goals			<p>Trainee will</p> <ul style="list-style-type: none"> ✓ Explain about the organizational goals ✓ Describe the sources of support to achieve the organizational goals ✓ Demonstrate and identify the mental level of person to support in achieving the organizational goals 		

List of Machinery/Equipment/Tools

(For a Class of 25 Students)

NAME OF TRADE	CAD/CAM
Duration of Course	6 Months

Sr.#	Nomenclature of Equipment/Tools	Quantity
1	Systems (computer set)	25
2	Plotters	01
3	Digitizers	02
4	Scales	25
5	Inches tapes	25
6	scissors	12
7	Cutting tables	06
8	Set squares	12

9	French curve	12
10	Stapler	01
11	First aid box	01
12	Fire extinguishers	01

List of Consumable Materials

(For a Class of 25 Students)

Sr.#	Name of Material/Items	Quantity/Student	For 25 students
1	Pattern sheets	25	625
2	Led pencils	02	50
3	Erasers	02	50
4	Paper roll (plotter paper)		05
5	Staple pins	01 box	25 boxes
6	Ebro tape	01	25
7	Plotter pen/catarage		15

Reference Material

- Course Manual For Data and system management
- Course Manual For Maker Making
- Colleagues
- Internet
- Helping Notes Of Gerber Software
- Pattern and Grading Books
- Technical Experts

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