

1	Name of Course	<b>Certificate Course in Computer Aided Pattern Making (410133)</b>																																								
2	Max. Nos. of Student	25 Students																																								
3	Duration	6 Months																																								
4	Type	Full Time																																								
5	Nos. of Days / Week	6 Days																																								
6	Nos. of Hours /Days	7 Hrs																																								
7	Space Required	Theory Class Room – 200 sqft Practical – 1000 sqft																																								
8	Entry Qualification	S.S.C. + Any Course in Tailoring Group of MSBVEE																																								
9	Objective Of Syllabus/ introduction	Awareness of Safety precautions Knowledge of Engineering skill, use of tools in Apparel. Awareness of Pattern Making. Awareness of Basic & computerized Pattern Making. Awareness of Editing in computerized Pattern Making.																																								
10	Employment Opportunity	The trainee will either to be able to take up jobs with agencies which Maintain, Develop, Computer Aided Pattern Making or with working experience will be in a position to start his own independent Business.																																								
11	Teacher’s Qualification	Diploma or Degree Fashion Designing.																																								
12	Training System	<table><tr><td colspan="7"><b>Training System Per Week</b></td></tr><tr><td>Theory</td><td>Practical</td><td colspan="5">Total</td></tr><tr><td>18 Hours</td><td>24 Hours</td><td colspan="5">42 Hours</td></tr></table>						<b>Training System Per Week</b>							Theory	Practical	Total					18 Hours	24 Hours	42 Hours																		
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# SYLLABUS

## Theory & Practical

### Computer Aided Pattern Making ( Advanced)

Practical - II	Theory-1
Search information from NET, save and prepare a power point presentation related to the subject.	Career in CAD Technology. Introduction to Computer behaviors. Safety precautions to be taken during the use of computer. Commands of Word, Excel, Power Point, Internet.
Practice of different commands as creation of point line, dart, fullness, pleats etc.	Introduction to the different software related to the subject available in the market Knowledge of different modules in the Software. Advantages and Disadvantages of Software. Working behavior of Export Houses Process flow chart.
Practice of Tools to use digitizer. Practice of Pattern Digitizing. Save the digitized pattern. Apply Rule Table.	Digitizing - Knowledge of process of Digitizing. Knowledge of Digitizer. Importance of Digitizing.
Practice of Grading the Pattern in different manner-Point grading, line grading, body grading, rule grading, button grading, grading internal points etc.	Grading -- Importance Of Grading Types of Grading Different types of Grading - Point Grading - Line Grading - Body Grading - Rule Grading - Button Grading etc. Grading of Internal point Match grading through comparison.
Practice of filling different forms/ tables Practice of Marker Making – Manual practice Practice of Marker Making – Auto nesting Practice of efficient maker making using advanced tools Block / Buffer	Marker Making-- Introduction to Marker Making. Utility of Marker Technical Terms related to Marker Different forms / Tables required for Marker Making. Knowledge of Fabric Details – One way, two way, fabric width, knit / woven fabric Knowledge of advanced tools related to efficient / Fast marker making Different calculations related to marker making

Practice of Making patterns of different styles.	Pattern Making Knowledge of Industrial measurement charts like US, UK measurements/ specifications
Pattern creation through spread sheets.	Reading of spread sheets Knowledge of contents of spread sheet.
Application of technical tools in pattern manipulation and prepare final pattern.	Use of Technical tools like Dart manipulation, adding fullness, pleats etc.
Practice of Different report generation and process control	Knowledge of Production sheets, Reports, Costing, Inventory Control etc.
Practice of working with plotter and auto cutting system Printing of pattern in different ways.	Knowledge of Plotter and Auto Cutting system, Spreading Techniques.
Practice of tools to create a new model – free hand, according to measurements. Practice of scanning new model & work on it	Importance of fashion designing in the industry Knowledge of available facilities related to fashion sketching Knowledge of terminology related to the subject. Knowledge of Tools to draw a model Knowledge of scanner and scanning tools
Practice of Tools to drape a dress to the model- 2D draping, 3D draping	Knowledge of tools to drape a dress to the model.
Practice of stitching the pattern & checking over the model about the fitting aspect & alteration of pattern.	Knowledge of Tools to stitch the pattern & check over the model.
Practice of adding different accessories to the dress as laces, ribbons, Buttons etc.	Knowledge of tools to add accessories to the dress.
Practice of scanning a fabric. Create new design of the fabric. Apply fabric design / texture variation. Apply colour variation in the design. Drape new fabric to the model.	Knowledge of tools to create various effects to the Dress.
Practice to use the library material	Knowledge of material available in software library & process to use the same

## Advance Pattern Making, Quality Control, Finishing & Packing

Practical -I
Checking of material about pattern creation. Use of tools and equipment in the workshop with safety precautions. Checking of different patterns drawing and samples. Creating pattern using different sizes and sample
Handling of tools and equipment for pattern making.
Making of basic body patterns using standard measurement on paper. Completing notches, punches, seams, allowances Completing drafts and patterns on marking. Making bodice pattern. Practice of drapping and drafting method.
Practice of Pattern grading
Grading the pattern. Grading the pattern. Grading the slopers. Grading of production patterns.
Demo of working of Computer, demo of input and output devise, their features, handling and handling precautions, Identify external ports and connectors: identify types of connectors and interconnections, practice removing and interconnecting. Floppy drive and storage media. CD Rom drive, media and usage, Mouse, Scanners, Printers. Features of Windows as an operating system Start and Shutdown Creating and operating of icons Opening closing and sizing the windows. Using elementary job commands like creating, saving, modifying, renaming, finding and deleting a file. Creating and operating on a folder. Changing setting like, date, time color (background, Screen saver etc) Using short cuts Using on line help
MS WORD File management: Opening, creating and saving a document, locating files, copying contents in some different file (s), protecting files, Giving password protection for a file Page Set Up: Setting margins, tab setting, ruler, indenting Editing a document: Entering text, Cut, Copy, Paste Formatting a document: Using different fonts, changing font size and color, changing the appearance
through bold/italic/underlined, highlighting a text, changing case, using subscript and superscript, using different underline methods, aligning of text in a document, justification of document, Inserting bullets and numbering. Formatting paragraph, inserting page breaks and column breaks Use of headers, footers: Inserting footnote, and note, use of comments Inserting date, time, special symbols, importing graphic images, drawing tools. Table and Borders : Creating a table, formatting cells, use of different border styles, shading in tables, merging of cell, partition of cells, inserting and deleting a row in a table. Print preview, zoom, page set up, printing options Using Find, Replace options Using Tools like: Spell checker, help, mail merge, thesaurus word content and statistics, printing envelopes and labels Using shapes and drawing Toolbar,

<p>Inserting of word art and picture, Word Art or other objects in the document and their formatting as per requirement</p> <p><b>POWER POINT</b></p> <p>Starting Ms Power Point and Viewing A Presentation. Creating Presentation Slides With Text and Images.</p>
<p><b>MS –EXCEL.</b></p> <p>Starting excel, open Worksheet.Enter, exit, Data formulas to Calculate values, format Data.Create chart, printing Chart, save worksheet, Switching from another spread sheet</p> <p>Menu Commends: Create, format charts,organize, manage date, solving problem by analyzing data exchange with other applications Programming with MS-Excel, getting information while working. Internet.</p> <p>Log-in to internet, Creating E-mail account, E-mail sending and receiving email, creating an address book, Attaching a file with e-mail message.</p> <p>Save net contents.</p>
<p>Practice of different commands to be used in pattern making Practice of digitizer a pattern &amp; working on Digitizer pattern.</p>
<p>Practice of entering sizes, Grading tables etc. Practice of grading upper body garment (Front, back, sleeve, collar, cuff, facing etc) Practice of grading lower body garment (front back, fly, belt etc.)</p> <p>Practice to making different marker,markers on different widths, different print, checks etc, matching of pattern, Report generation. Practice of making Drafts of different garments Such as – Frocks, Blouses, Cholicut Blouse, Boys shirts, Shirts, Kurtas, Ladies Shirt with salwar/churidar pyazama, Skirts, shirts. Trousers.</p>
<p>Inspection of Fabric Defects Inspection of cut components Fabric testing for different qualities of fabric as colour fastness Air porosity etc. Methods of shrinking treatment for different fabric.</p>
<p>Checking parametersPractice of Checking semi furnished and finished garments.</p>
<p>Quality Checking and Measuring Garments based on given specification. Checking fit and style as per buyer's original sample.</p>
<p>Importance and necessity of Inspection Inspection procedure ISO Standards</p>
<p>Tools &amp; Equipment used in finishing Processes.</p>
<p>Pressing of Shirt, Kurta, Salwar, Trousers , Skirt &amp; Blouse.</p> <p>Practice of Stain removing from different fabrics with the help of Stain removing gun &amp; Stain removing machines.</p> <p>Knowledge of Label position according to purpose &amp; instructions.</p>
<p>Practical exposure to lateste quipment related to finishing, packing &amp; folding process. Practice of pressing , Folding &amp; packing of different garments.</p>

## Computer Lab

Sr. No.	Description	Quantity
1	Software Corel Draw, Photoshop, Adobe Illustrator, Image ready, Idea or equivalent ( Licensed Version)	As reqd.
2	Software for Pattern Making, Grading and Marker making (latestversion )	10 Nos.
3	Software for Textile Designing (latest Version ) Fashion Studio	10 Nos.
4	Software for 3D Simulation ( latest version )	10 Nos.
5	Pentium IV Computer or latest ( Server - Linux) 2.8 GHz & above, 1GB RAM,80gGB HDD,DVD Combo Drive ,15” Monitor, optical scroll mouse, multimedia key board, 32bit LAN card with UPP port, necessary Drivers 1 No.	1 No.
6	Pentium IV Computer or latest ( Client windows XP or higher), 2.8 GHz,512 MB RAM,40/80 GB HDD, DVD Combo Drive,15”/17”Moniter, optical scroll mouse, multimedia key Board, LAN card, necessary Drivers & Antivirus software	10 Nos.
7	Networking: Above computer systems connected in LAN	
8	Broad Band internet Connection, minimum speed 256 kbps	
9	UPS 500 VA or Centralized UPS with 5 KVA Capacity	10 or 1 No.
10	Desk Top Laser Printer	2 No.
11	Inkjet Printer	1 No.
12	Scanner	1 No.
13	LCD Projector with Screen	1 No.
14	Overhead Projector with Screen	1 No.
15	Instructor Table and Chair	1 No. each
16	Computer Table	10 Nos.
17	Revolving Chair	10 Nos.
18	White Board with Accessories	01 No.
19	Shoe Rack	As required
20	Locker with 8 drawers (standard size)	02 Nos.
21	Locks	10 Nos.
22	Storage Almirah	As required
23	Book Shelf (Glass Panel)	01 No.