

1	Name of Course	Certificate Course in Apparel (410211)																																																														
2	Max. Nos. of Student	25 Students																																																														
3	Duration	1 Year																																																														
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 – 1600 sqft																																																														
8	Entry Qualification	S.S.C.																																																														
9	Objective Of Syllabus/ introduction	Awareness of Safety precautions Knowledge of Engineering skill, use of tools in Apparel. Awareness of Fundamental of Garment Technology. Awareness of Garment Sewing. Awareness of Advance Garment Sewing. Awareness of Basic & computerized Pattern Making. Awareness of Quality Control, Finishing & Packing.																																																														
10	Employment Opportunity	The trainee will either to be able to take up jobs with agencies which Maintain, Develop , Repair in Apparel or with working experience will be in a position to start his own independent Business.																																																														
11	Teacher’s Qualification	Diploma in Fashion Designing. With 3 year Teaching experience in Apparel Diploma or Degree Fashion Designing or equivalent profession Qualification. With 1 year Teaching experience in Apparel.																																																														
12	Training System	<table><tr><th colspan="7">Training System Per Week</th></tr><tr><td colspan="2">Theory</td><td colspan="2">Practical</td><td colspan="3">Total</td></tr><tr><td colspan="2">18 Hours</td><td colspan="2">24 Hours</td><td colspan="3">42 Hours</td></tr></table>							Training System Per Week							Theory		Practical		Total			18 Hours		24 Hours		42 Hours																																					
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13	Exam. System	<table><tr><th>Sr. No.</th><th>Paper Code</th><th>Name of Subject</th><th>TH/PR</th><th>Hours</th><th>Max. Marks</th><th>Min. Marks</th></tr><tr><td>1</td><td>41021111</td><td>Fundamental of Garment Technology & Basic Garment sewing.</td><td>TH-I</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>2</td><td>41021112</td><td>Advance Garment Sewing & Pattern Making</td><td>TH-II</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>3</td><td>41021113</td><td>Advance Pattern Making, Quality Control, Finishing & Packing</td><td>TH-III</td><td>3 hrs</td><td>100</td><td>35</td></tr><tr><td>4</td><td>41021121</td><td>Fundamental of Garment Technology & Basic Garment sewing.</td><td>PR-I</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td>5</td><td>41021122</td><td>Advance Garment Sewing & Pattern Making</td><td>PR-II</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td>6</td><td>41021123</td><td>Advance Pattern Making, Quality Control, Finishing & Packing</td><td>PR-III</td><td>3 hrs</td><td>100</td><td>50</td></tr><tr><td></td><td></td><td>Total</td><td></td><td></td><td>600</td><td>255</td></tr></table>							Sr. No.	Paper Code	Name of Subject	TH/PR	Hours	Max. Marks	Min. Marks	1	41021111	Fundamental of Garment Technology & Basic Garment sewing.	TH-I	3 hrs	100	35	2	41021112	Advance Garment Sewing & Pattern Making	TH-II	3 hrs	100	35	3	41021113	Advance Pattern Making, Quality Control, Finishing & Packing	TH-III	3 hrs	100	35	4	41021121	Fundamental of Garment Technology & Basic Garment sewing.	PR-I	3 hrs	100	50	5	41021122	Advance Garment Sewing & Pattern Making	PR-II	3 hrs	100	50	6	41021123	Advance Pattern Making, Quality Control, Finishing & Packing	PR-III	3 hrs	100	50			Total			600	255
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SYLLABUS

Theory & Practical – I

Fundamental of Garment Technology & Basic Garment Sewing

Practical	Theory
Familiarization with different sewing tools & safety precautions in their use. Introduction to sewing machine Smooth running of sewing machine, Smooth running of sewing machine, fabrics. speed control, practice on paper for running the machine in straight lines, making corner, curve lines etc.	Introduction to the course Knowledge of Sewing Hand tools. Knowledge of varieties of threads available in the market. Construction, size, count, meterage, ticket no, twist, durability & suitability to different fabrics.
Practice of top stitching – ½” 1/8” 1/16” & 1/32” Cleaning & Oiling of machine. Correct posture during stitching. Threading of machine, filling & fixing of bobbin & bobbin case, practice on cloth for stitching and use of machine attachments.	Introduction to industrial sewing machine- Main parts, their functions, use, oiling & Cleaning of machine, Minor adjustment, machine attachments, feed systems, needles.
Working on special machines in respect of speed control, threading, minor mechanical adjustment & use of their special function.	Knowledge of the following Industrial sewing machines Double Needle Machine, Double needle machine –feed of the arm overlock machine, Bar tack machine, Button hole machine, button sewing machines, Blind hemming Machine Zig zag machine. their function, main parts & use
Practice of working on cutting machine Practice of working on fusing machine.	Introduction to different cutting room machines – straight knife cloth cutting machine, round knife cloth cutting machine, Die cutter etc. Introduction to fusing technology & fusing machines –its necessity & function. Introduction to spreading cum computerized cutting machines
.Practice of making different seams.	Knowledge of different seams and seam finishes. Technical Terms used in Garment Technology
Threading of needle, starting & ending of stitches. Practice of making different stitches. Making of small useful products from the above exercises.	Introduction to hand stitches -Temporary stitches - Permanent stitches - Classification, construction & their use
Familiarization with different sewing tools & safety precautions in their use. Introduction to sewing machine. Smooth running of sewing machine, speed control, practice on paper for running the machine in straight lines, making corner, curve lines etc.	Introduction to the course Knowledge of Sewing Hand tools. Knowledge of varieties of threads available in the market. Construction, size, count, meterage, ticket no, twist, durability & suitability to different fabrics.

Practice of top stitching – ½” 1/8” 1/16” & 1/32” Cleaning & Oiling of machine. 2.Cleaning of machine, Minor adjustment, Correct posture during stitching. Threading of machine, filling & fixing of bobbin & bobbin case, practice on cloth for stitching and use of machine attachments.	Introduction to industrial sewing machine - Main parts, their functions, use, oiling & Cleaning of machine, Minor adjustment, machine attachments, feed systems, needles etc.
Practice on making - Different type of Tucks - Different type of Darts - Different type of Pleats	Knowledge of shaping techniques - Different type of Tucks - Different type of Darts - Different type of Pleats
Practice on cloth for making - Different type of Plackets - Different type of collars	Measurement - Methods of taking measurements - Precautions in taking measurements - Study of size charts - Terms used in drafting. Pattern making tools. Knowledge of different type of - Plackets - Collars
Practice on cloth - Making of different type of Cuffs - Making of different type of Pockets - Precautions during stitching	Knowledge of Different type of - Cuff - Pockets
Fixing of Different type of trimmings such as - Ribbons, Laces, Braids etc. - Fixing of buttons - Making of different type of button holes - Fixing of Hooks and eyes - Fixing of snap fasteners	Knowledge of Trimming materials - Tapes & Stiffenings. - Bindings & Ribbons - Clasps & Buckles - Elastics - Laces & Braided Cords - Beads and Flowers - Lace Color, Pad and Fringes etc Fastenings - Different type of zips - Buttons and Button holes - Hooks and eyes - Snap fasteners and velcro strips
Stitching of the given garments salwar, Churidar payazama, Frock, Blouse, Katori Blouse, Kurta etc.	Drafting of the given garments and converting the same in to full scale pattern

List of Tools, Machinery Equipment etc. for a batch of 25 Trainee

Sr. No.	Description	Quantity
1	Scissor- 8"	10 Nos.
2	Snips	10 Nos.
3	Thimble	10 Nos.
4	Seam Ripper	10 Nos.
5	Screw Driver Set	10 Nos.
6	Single needle lock stitch Flatbed High-speed machine - Computerized with UBT	10 Nos.
7	Single needle lock stitch with needle feed system - computerized with UBT	2 No.
8	2- Needle lock stitch split needle bar	1 No.
9	2- Needle Lock Stitch Fix Bar Machine with Belt Folder	1 No.
10	Feed -off-the arm (light to mid) machine cylinder bed	1 No.
11	3-Thread over lock	1 No.
12	Elastic attaching machine - 4 Needle with Folder	1 No.
13	Five Thread flat lock machine (2 needle)	1 No.
14	Bar taking machine (Computerized)	1 No.
15	Single needle zigzag m/c (Computerized)	1 No.
16	Button hole machine (Computerized)	1 No.
17	Button stitch machine (Computerized)	1 No.
18	Blind Hemming Machine	1 No.
19	1- Needle Two Thread overlock machine	2 Nos.
20	Belt Attaching Machine with Belt Folder	1 No.
21	Mini Boiler - 01 No. With Vacuum Pressing Table - 2 Nos. with Shirt & Trousers Buck Electrical Steam Press Automatic - 2 Nos. 1 Set	1 Set

Theory & Practical – II

Advance Garment Sewing & Pattern Making

Practical	Theory
Construction of Shirts (Use of different types of machine with attachment & folders) Method of preparation of shirts Front placket Pocket prepare Pocket stitch on front Shoulder and back joint with label Front end shoulders joint Sleeve placket Join Sleeve with armhole Collar and cuff Cuff and Collar joint Button and button hole mark Button hole on front placket Button sewing on front placket	Knowledge of preparation of Shirts Drafting of Shirt. (Use of different types of machine with attachment & folders) Method of preparation of shirts Front placket Pocket prepare Pocket stitch on front Shoulder and back joint with label Front end shoulders joint Sleeve placket Join Sleeve with armhole Collar and cuff Cuff and Collar joint Button and button hole mark Button hole on front placket Button sewing on front placket
Construction of T-Shirts (Use different types of machine with attachment & folders) Cutting of T-Shirt Stitching of Shirt	Knowledge of preparation of T-Shirts Drafting of T-Shirt. (Use of different types of machine with attachment & folders) Method of preparation of T-shirts
Construction of Trousers - Denim (Use different types of machine with attachment & folders) Cutting of Trousers Prepare Front pocket Back darts Prepare Back pocket Label stitching Zip attachment Front and back joint Belt joint Loops joint Front back leg joint Bottom hemming practice Button and button hole marks Button sewing Prepare button hole	Knowledge of preparation of Trousers Denim (Use different types of machine with attachment & folders) Drafting of Trouser Method of preparation of Trouser Front pocket Back darts Back pocket Label stitching Zip attachment Front and back joint Belt joint Loops joint Front and back joining Bottom hemming Button and button hole marks Button sewing
Rectification of defects appears in shirts Rectification of defects appears in Trousers.	Fittings and alterations - Principles of good fit - Basic fitting defects in upper bodygarments & their rectification - Basic fitting defects in lower body garments and their rectification.
Construction of Regional Traditional Dress	Introduction to Regional Traditional Dress

List of Tools, Machinery Equipment etc. for a batch of 25 Trainee

Sr. No.	Description	Quantity
1	Scissor- 8"	10 Nos.
2	Measuring tape	10 Nos.
3	Hip Curve, Leg Shapper, Arm Hole French Curve, Pattern Master, Tailors Square	10 Nos.
4	Hand cutter for Thread	10 Nos.
5	Screw Driver Set	10 Nos.
6	Single needle lock stitch Flatbad Highspeed machine - Computerised with UBT	10 Nos.
7	Single needle lock stitch with needle feed system - computerised with UBT	2 Nos.
8	2- Needle lock stitch split needle bar	1 No.
9	2- Needle Lock Stitch Fix Bar Machine with Belt Folder	1 No.
10	Feed -off-the arm (light to mid) machine sylinder bed	1 No.
11	3-Thread over lock	1 No.
12	Elastic attaching machine - 4 Needle with Folder	1 No.
13	Five Thread flat lock machine (2 needle)	1 No.
14	Bar taking machine (Computerised)	1 No.
15	Single needle zigzag m/c (Computerised) Button hole machine (Computerised)	1 No.
16	Button stitch machine (Computerised)	1 No.
18	Collar turning machine with different die set	1 No.
19	Cuff turn machine with different die set	1 No.
20	1- Needle Two Thread overlock machine	2 No.
21	Belt Attaching Machine with Belt Folder	1 No.
22	4 Needle Machine for shirt placket with placket folder	1 No.
23	Mini Boiler - 01 No. With Vaccum Pressing Table - 2 Nos. with Shirt & Trousers Buck Electrical Steam Press Automatic - 2 Nos. 1 Set	1 Set

Theory & Practical - III

Advance Pattern Making, Quality Control, Finishing & Packing

Practical	Theory
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	Introduction to the course Importance and type of patterns. Information of tools about pattern creations. Advantages of pattern and their use. Creating patterns using different size and sample. Taking care in different print, checks and strips.
Handling of tools and equipment for pattern making.	Terms and Terminology, Industrial norms, Pattern paper, pattern making terms, grain lines, notches, seam allowances, darts marking.
Measuring practice. Practice of taking individual measurement. Garment measurement system Measurement noting abnormal body.	Measuring techniques and its importance, garment measuring system and anatomy of body. Study of size charts.
Making of basic body patterns using standard measurement on paper. Completing notches, punches, seams, allowances Completing drafts and patterns on marking.	Basic body patterns, drafting method pattern, preparation, perfection and shaping process, draping method, preparation for body's drape, front back drape, transferring draped muslin to patterns.
Making bodice pattern. Practice of drapping and drafting method.	Introduction to Design Analysis. Elements and Principles of Design. Pattern manipulation. (Dart, collar, sleeve etc.)
Practice of Pattern grading Grading the pattern. Grading the slopers. Grading of production patterns.	Pattern Grading Methods of Grading Grading the patterns. Grading the slopers Grading of production patterns.
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.	Introduction of Quality Control Requirement of an effective and adequate quality control Nature of different fabrics (knits and woven) Fabric weaving, texture, colour fastness, durability, manufacturing process defects etc. Shrinkage treatment (cotton, woolen, silk and Blended)
Checking parameters Practice of Checking semi furnished and finished garments.	Study Auditing Report Important and necessity of Inspection proceeding ISO standards

Quality Checking and Measuring Garments based on given specification. Checking fit and style as per buyer's original sample.	Study of Quality Checking & Measuring Garments based on given specification. Checking fit and Style as per buyer's original sample. Study of different designs, its placement with notches, workmanship & Stitches per inch.
Importance and necessity of Inspection Inspection procedure ISO Standards	Study of Quality Checking and Measuring in respect of finishing parameters, washing parameters (shrinkage, shade variation, shade etc.)
Sub Module – Finishing and Packing	
Tools & Equipment used in finishing Processes	. Introduction of different machines (Body forming machine, leg press, Buck press, Vacuum steam press Table) Introduction of Finishing Processes.
Pressing of Shirt, Kurta, Salwar, Trousers , Skirt & Blouse. Practice of Stain removing from different fabrics with the help of Stain removing gun & Stain removing machines. Knowledge of Label position according to purpose & instructions.	Different Pressing Methods as per fabric requirements. Importance of pressing. Stains – Identification and their removal Labels – their kinds & use
Practical exposure to latest equipment related to finishing, packing & folding process. Practice of pressing , Folding & packing of different garments.	Introduction to advanced pressing, folding & packing equipment. Introduction to latest packing material (such as Collar patti, butterfly PVC patti, Moti pin, stand patti & Packing sheet etc.)

List of Tools, Machinery Equipment etc. for a batch of 25 Trainee

Sr. No.	Description	Quantity
	Measuring tools – wooden scale, arm sticks(all types), Measure tap, ruler (wooden), Ruler (steel) (24”) 10 Nos.	10 Nos.
	Cutting Seizers 6”	10 Nos.
	Pick glass 1” size	10 Nos.
	Inspection glass with border (light)	10 Nos.
	Different type of dummies – children, ladies and gents	As per Requirement
	Different type of cloth hanger	As per Requirement
	Scissor 10’	10 Nos.
	Magnifier glass	10 Nos.
	Paper Sticker (Different Colors)	100 Nos.
	Color Marking Chalk for Cloth (Different Colors)	50 Nos.
	Fabrics Inspection Machine	1 No.
	Modern Lab to prepare according to the Quality Checking	1 No
	Latest Multimedia Computer System with Printer & Scanner with all necessary license software for preparation of quality checking sheet	1 No.
	Rack for fabrics roll Steel cupboard	1 No.
	Table and Chair (for C.I.)	1 No.
	Cutting table : 4X8’ X3’ (With sunmika)	1 No.
	Trolley	2 Nos.
	Inspection Table (6’ x 4’) with glass top and inside lighting facility	2 Nos.
	Mini Boiler - 1 No. Vaccum Table - 2 Nos. Electrion Iron - 2 Nos.	1 Set (With Buck)
	Shirt Folding Table	1 No.
	Stain Removing Gun (with Compressor)	1 No.
	Snap Attaching Machine	1 No.
	Thread Sucking Machine	1 No.
	Vacuum Pump	1 No.
	Table square-wooden	11 Nos.
	Specified pressing table with dye attachment	01 No.
	Table and chair (for C.I.)	01 No.
	Pressing table 4’ X 6 ‘ X 3’ (with table cloth)	02 Nos.
	Heavy duty steam iron Electrical	2 Nos.
	Measuring tools – wooden scale, arm sticks(all types), Measure tap, ruler (wooden), Ruler (steel)	10 Nos.
	Cutting Seizers 6”	10 Nos.
	Pick glass 1” size	10 Nos.
	Inspection glass with border (light)	10 Nos.

	Different type of dummies – children, ladies and gents	As per Requirement
	Different type of cloth hanger	As per Requirement
	Scissor 10'	10 Nos.
	Magnifier glass	10 Nos.
	Paper Sticker (Different Colors)	100 Nos.
	Color Marking Chalk for Cloth (Different Colors)	50 Nos.
	Scissors 8"	10 Nos.
	Tailors Square Plastic	10 Nos.
	Leg Shaper Plastic	10 Nos.
	Marking Wheel	10 Nos.
	Measuring tape	10 Nos.
	Pattern Master (Shaper Set)	10 Nos.
	Hip Curve plastic	10 Nos.
	Arm hole French curve big plastic	10 Nos.
	Steel ruler 100 cm	10 Nos.
	Stools with adjustable height steel frame and padded seat(one for each machine)	10 Nos.
	Sharpener (Table Model)	02 Nos.
	Gum tape Dispenser	02 Nos.
	Waste paper basket – tin\plastic	08 Nos.
	Cutting table with cork sheet top -8' x 6'	16 Nos.
	Pattern Punch ¼"	02 Nos.
	Pattern notcher	02 Nos.
	Pattern Hanging Hooks	75 Nos.
	Pattern Hanging Stand	02 Nos.
	Gent's dress form with stand size 32,34,36,38	01 No.
	Ladies dress form with stand. Size 8,10,12,14	02 Nos.
	Calculator Desk Type	01 No.
	Steel Lockers over all sizes 195 cm x 90 cm x 48 cm having a compartment grills with provision for separate locks	03 Nos.
	Locks for above	10 Nos.
	Wall Clock	01 No.
	White Board (fixed on wall) 120 x 120 cm.	01 No.
	O.H.P. with trolley and screen	01 No.