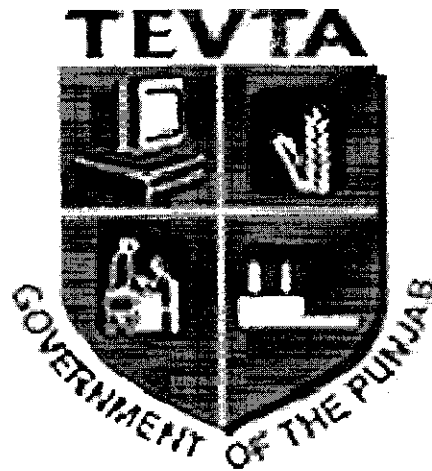


GOVERNMENT OF PUNJAB

**TECHNICAL EDUCATION & VOCATIONAL
TRAINING AUTHORITY**



CURRICULUM FOR
MATRIC VOCATIONAL
(Clothing & Textiles Group)

(2 – Years Course)

Revised August, 2016

CURRICULUM SECTION
ACADEMICS DEPARTMENT

96-H, GULBERG-II, LAHORE

Ph # 042-9263055-9, 9263064

gm.acad@tevta.gop.pk, manager.cur@tevta.gop.pk

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TRAINING OBJECTIVES:

1. The main aim of this curriculum is to provide basic conceptual & practical training of clothing and textile along with computer expertise, in a new stream of Matric.
2. This course will provide the opportunity of vertical mobility academically as well as professionally.
3. The curriculum is designed / revised by keeping in view the requirements of modern trends and also incorporating traditional elements.
4. This curriculum more focusing on practical aspects and necessary theoretical knowledge is also imparted in order to produce capable & skilful workforce as per prevailing market demand and self employed members of the society.
5. To learn and select right material, fabric, design according to personality, season and occasion.
6. To enhance academic qualification along with skill to produce garments.

CURRICULUM SALIENT:

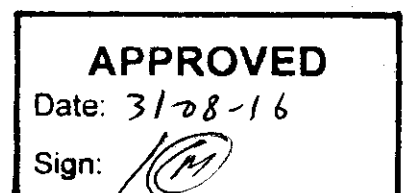
1. Name of the Course	Matric Vocational
2. Entry level	Middle
3. Duration of course	2-Years
4. Total training Hours	2650 Hrs.
5. Training Methodology :	
Theory	60%
Practical	40%
6. Medium of Instruction	Urdu / English



SKILL COMPETENCY DETAILS: -

On successful completion of this course, the trainee should be able to:-

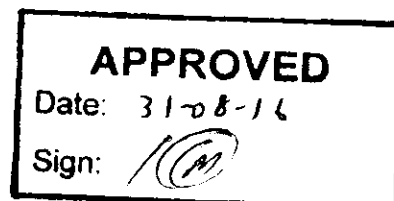
1. Operate and maintain sewing machines (Manual / Electrical) for domestic use.
2. Adopt safety & precautionary measures in handling of machines.
3. Draft patterns for different garments sizes such as: -
 - a. Kids
 - b. Teens (Males & Females) according to standard measurements.
4. Make different types of machine stitches.
5. Apply the grading method and techniques.
6. Make different hand and machine embroidery stitches including patch work, cut work and Adda work.
7. Transfer / trace pattern from paper to fabric.
8. Stitch basic garments of kids, boys and girls according to different occasions and seasons
9. Practice different design development techniques.
10. Use computer and basics of Microsoft Office and Graphics software i.e. Coral Draw and adobe illustrator.



KNOWLEDGE PROFICIENCY DETAILS: -

On successful completion of this course, the trainee should be able to: -

1. Explain the basic knowledge incorporated in the compulsory subjects Urdu, English, Islamiyat and Pak Studies.
2. Interpret the basic concepts of design according to: -
 - a. Personality
 - b. Culture
 - c. Occasions
 - d. Season
 - e. Age
 - f. Gender
3. Understand the pattern alteration and grading system.
4. Understand the standard sizes of:
 - a. Apparel
 - b. Household linen products.
5. Define:
 - a. Drafting & cutting techniques.
 - b. Principles & elements of designs.
 - c. Design development techniques
6. Comprehend:
 - a. Functions of various embroidery & sewing machines.
 - b. Embroidery stitches and their application.
 - c. Applications of various color schemes.
 - d. Drafts of different sizes according to body measurements
7. Acquire knowledge about computer, its functions and different software including Microsoft Office and Graphics software.



REVISED SCHEME OF STUDIES**Matric (Vocational)****1st Year (9th Class)**

Sr. No.	Subjects	Theory Hours	Practical Hours	Total Hours
1.	English-I	204	0	204
2.	Urdu-I	204	0	204
3.	Islamiyat-I	52	0	52
4.	Pakistan Studies-I	52	0	52
5.	Mathematics-I	204	0	204
6.	Drafting & Sewing – I	34	204	238
7.	Hand Embroidery	34	170	204
8.	Elements & Principles of Drawing & Design	34	136	170
Total		816	510	1326


2nd Year (10th Class)

Sr. No.	Subjects	Theory Hours	Practical Hours	Total Hours
1.	English-II	204	0	204
2.	Urdu-II	204	0	204
3.	Islamiyat-II	50	0	50
4.	Pakistan Studies-II	50	0	50
5.	Mathematics-II	204	0	204
6.	Drafting & Sewing – II	34	204	238
7.	Machine Embroidery	34	136	204
8.	Computer Foundation	34	170	170
Total		816	510	1326

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CURRICULUM

For

9TH CLASS

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DETAIL OF COURSE CONTENTS**Matric Vocational
(2– Years Course)****English**

Sr. No	Detail of Topics	Theory Hours	Practical Hours
1.	As Per General Education (BISE/ PC&TB)	204	-
Total		204	-

Urdu

Sr. No	Detail of Topics	Theory Hours	Practical Hours
2.	As Per General Education (BISE/ PC&TB)	204	-
Total		204	-

Islamiyat

Sr. No	Detail of Topics	Theory Hours	Practical Hours
3.	As Per General Education (BISE/ PC&TB)	52	-
Total		52	-

Pakistan Studies


Sr. No	Detail of Topics	Theory Hours	Practical Hours
4.	As Per General Education (BISE/ PC&TB)	52	-
Total		52	-

Mathematics

Sr. No	Detail of Topics	Theory Hours	Practical Hours
5.	As Per General Education (BISE/ PC&TB)	204	-
Total		204	-

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6. Drafting & Sewing-I

Sr. No	Detail of Topics	Theory Hours	Practical Hours
1.	Introduction to Textiles 6.1 Identification of fiber through feeling, burning, odor and ash (Cotton, Wool, Silk, Acetate, Rayon, Polyester) 6.2 Physical Properties of: 1.1.1 Cotton 1.1.2 Wool 1.1.3 Silk 1.1.4 Acetate 1.1.5 Rayon 1.1.6 Polyester	8	12
2.	Introduction to clothing Drafting 2.1 Definition / Importance of Drafting and its use. 2.2 Terms & Technologies used in Drafting 2.3 Knowledge of different figure (Thin, Smart, Normal, Fat) 2.4 Tools of Drafting and their uses 2.5 Scale reading & writing 2.6 Direct Body Measurement and use Small, Medium Large Formula	6	18
3.	Sewing 3.1 Introduction and instruction of sewing techniques 3.2 Parts of sewing machine 3.3 Care of sewing machine and precautions 3.4 Lubrication of machine 3.5 Trouble shooting of sewing machine	4	16

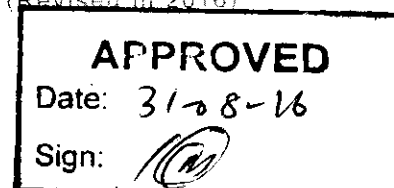
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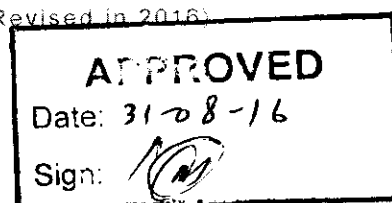
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4.	Seams & Seam Finishes 4.1 Different kind of seam and seam finishes 4.2 Button holes and fastener 4.3 Zippers (visible) invisible 4.4 Practice of Piping	4	42
5.	Dress Selection 5.2 According to personality 5.3 According to Occasions 5.4 According to Age Group 5.5 According to Gender	6	-
6.	Drafting of children Garments 6.1 Introduction to Drafting of children garments. 6.2 Drafting of basic bodice block 6.3 Girls Garments 6.3.1 Drafting and Sewing of Frocks (waist fitted Frock) 6.3.2 Drafting and Sewing of Frock with skirt (Two Piece Garment) 6.3.3 Drafting and Sewing of A-Line Frock 6.3.4 Drafting and Sewing of Blouse and straight Skirt. 6.3.5 Drafting and Sewing of Yoke Frock. 6.3.6 Drafting and Sewing of Blouse and Skirt (Vent/ Box Pleat) 6.4 Boys Garments 6.4.1 Draft of Boy's Bush-Shirt 6.4.2 Sewing of Boys Bush-Shirt 6.4.3 Draft of Boy's nicker 6.4.4 Sewing of Boy's nicker.	6	76
7.	Final Projects 7.1 One Waist Fitted Frock	-	40



	7.2 One Straight Skirt with vent/box pleat		
	7.3 One Boy's Shirt		
	7.4 One Boy's Pant		
	Total	34	204




7. Hand Embroidery

Sr. No.	Detail of Topics	Theory Hours	Practical Hours
1.	Introduction to Embroidery <ul style="list-style-type: none"> 1.1 Importance of Hand Embroidery 1.2 Principal of hand embroidery 1.3 Selection of color / color scheme 1.4 Selection of Fabric 1.5 Selection of thread 1.6 Standardized sizes of project 1.7 Development of designs / patterns / motives 1.8 Repeat of pattern 1.9 Tracing techniques 1.10 Costing, Budgeting and pricing 	11	15
2.	Different types of hand embroidery stitches <ul style="list-style-type: none"> 2.1 Stem Stitch 2.2 Satin Stitch 2.3 Long and Short Stitch 2.4 Chain Stitch 2.5 Lazy Daisy Stitch 2.6 Double Lazy Daisy Stitch 2.7 Cross Stitch 2.8 Double Cross Stitch 2.9 Knot Stitches <ul style="list-style-type: none"> 2.9.1 Double Knot 2.9.2 Bullion Knot 2.9.3 French Knot 2.10 Couching 2.11 Herring Bone Stitch 2.12 Feather Stitch 2.13 Double Feather Stitch 2.14 Fern Stitch 	3	40

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	2.15 Spider Stitch 2.16 Wheel Stitch 2.17 Application of embroidery stitches 2.18 Practice of hand embroidery stitches		
3. Patch Work	3.1 Introduction of patch work techniques 3.2 Fabric selection 3.3 Selection of Colors 3.4 Basic pattern used for patch work techniques 3.5 Cutting of patch 3.6 Placement of patch on pattern 3.7 Tacking of patch 3.8 Practice of methods & techniques of patch work 3.8.1 Hem 3.8.2 Button hole	6	30
4. Cut Work (Hand)	4.1 Introduction of cut work techniques 4.2 Basic pattern development for cut work 4.3 Application of Cut work Techniques 4.3.1 Button hole 4.3.2 Combination of embroidery stitches 4.4 Cutting techniques 4.4.1 With scissor 4.4.2 With solder	8	20

5. Embellishments 5.1 Adda Work 5.1.1 Introduction of Adda work techniques 5.1.2 Introduction of all items used in Adda work techniques (needles, threads, decorative items sitara, Kora, dubka and gota work etc). 5.1.3 Practice tacking of fabric on Adda/wooden frame 5.1.4 Development of pattern on butter paper 5.1.5 Tracing of motif on fabric (stretched in Adda) 5.2 Ari Work Techniques 5.2.2 Introduction to Ari Work Techniques 5.2.3 Use of different Ari needles 5.2.4 Application of Ari Work on patterns 5.2.5 Filling techniques with silk thread 5.2.6 Application of beats & sitara with ari needle 5.3 Salma Sitara Work Technique 5.3.1 Introduction to Salma Sitara Application 5.3.2 Use of different needles 5.3.3 Introduction to decorative items 5.3.4 Cutting of cora & dupka 5.3.5 Application of technique to design 5.3.6 Application of beads, sitara and diamonds with needle 5.3.7 Different knots with needles		6	45
6. Final Projects 6.1 Sampler file will be completed including samples of 10"x12" for each technique		-	20
Total		34	170

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8. Elements & Principles of Drawing & Design

Sr. No.	Detail of Topics	Theory Hours	Practical Hours
1.	Introduction To Elements and Principles of Design 1.1. Historical concept of design 1.2. Elements of design 1.3. principles of design	6	6
2.	Elements of Design 2.1. Lines 2.1.1. Horizontal Lines 2.1.2. Vertical Lines 2.1.3. Curved lines 2.1.4. Diagonal Lines 2.2. Space 2.2.1. Importance Of Space In Design 2.2.2. Utilization Of The Space 2.3. Shape & Form 2.3.1. Circle 2.3.2. Square 2.3.3. Triangle 2.3.4. Rectangle 2.3.5. Geometric Forms 2.3.6. Two Dimensional Forms 2.3.7. Three dimensional Forms 2.4. Pattern 2.4.1. Geometrical 2.4.2. Floral 2.4.3. Abstract 2.5. Texture and its Types 2.5.1. Soft/ Smooth 2.5.2. Rough 2.5.3. Lustrous	15	40

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	2.5.4. Three dimensional 2.6. Color 2.6.1. Primary color 2.6.2. Secondary color 2.6.3. Tertiary colors 2.6.4. Color wheel 2.6.5. Color Schemes 2.6.5.1. Monochromatic 2.6.5.2. Analogous 2.6.5.3. Complementary 2.6.5.4. Double complementary 2.6.5.5. split complementary 2.6.5.6. Triad 2.6.5.7. Neutral 2.6.5.8. Accented Neutral 2.6.6. Value 2.6.6.1. Hue 2.6.6.2. Intensity of Hue 2.6.6.3. Tint 2.6.6.4. Shade 2.6.6.5. Warm colors 2.6.6.6. Cool Colors		
3.	Principles of Designs 3.1. Balance 3.1.1. Formal Balance (Symmetrical) 3.1.2. Informal Balance (Asymmetrical) 3.2. Proportion 3.3. Rhythm 3.4. Harmony 3.5. Emphasis	3	40

4.	Tools & Equipment Used For Drawing & Designing 4.1. Different types of paints and their application. 4.2. Use of drawing boards 4.3. Cutting Tools 4.4. Water containers 4.5. Storage Containers 4.6. Demonstration for using tools in drawing & designing patterns	5	10
5.	Pattern Development 5.1. Free hand Sketches 5.2. Scaling design 5.3. Repeat Design and its types 5.4. Stenciling 5.5. Color application	5	40
Total		34	136

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English

Sr. No	Detail of Topics	Theory Hours	Practical Hours
1.	As Per General Education (BISE/ PC&TB)	204	-
	Total	204	-

Urdu

Sr. No	Detail of Topics	Theory Hours	Practical Hours
2.	As Per General Education (BISE/ PC&TB)	204	-
	Total	204	-

Islamiyat

Sr. No	Detail of Topics	Theory Hours	Practical Hours
3.	As Per General Education (BISE/ PC&TB)	50	-
	Total	50	-

Pakistan Studies

Sr. No	Detail of Topics	Theory Hours	Practical Hours
4.	As Per General Education (BISE/ PC&TB)	50	-
	Total	50	-


Mathematics

Sr. No	Detail of Topics	Theory Hours	Practical Hours
5.	As Per General Education (BISE/ PC&TB)	204	-
	Total	204	-

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6. Drafting & Sewing – II

Sr. No	Detail of Topics	Theory Hours	Practical Hours
1.	Ladies Garments (Drafting and Sewing) 1.1 Draft & cut out pattern of ladies shirt (fitted) 1.2 Drafting of different pajamas 1.3 Drafting of Simple shalwar 1.4 Drafting of Shalwar with belt 1.5 Sewing of ladies shirt (fitted) 1.6 Sewing of different pajamas 1.7 Sewing of Simple shalwar 1.8 Sewing of Shalwar with belt	14	84
2.	Boys Garments (Drafting and Sewing) 2.1 Draft & cut out pattern of boys Shirt 2.2 Drafting of Boys Pant 2.3 Sewing of boys Shirt 2.4 Sewing of Boys Pant	13	60
3.	Pattern Alteration/Grading of different sizes 3.1 Introduction to alternations and grading 3.2 Grading method/technique 3.3 Pattern of small size 3.4 Pattern of medium size 3.5 Pattern of large size 3.6 Pattern of extra large size	4	12
4.	Final Project 4.1. Ladies suit (with both simple and belt shalwar) 4.2. Boys pant 4.3. Boys Shirt 4.4. Finishing of projects	3	48
Total		34	204

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7. Machine Embroidery

Sr. No	Detail of topics	Theory Hours	Practical Hours
1.	Machine Embroidery 1.1. Introduction to machine embroidery 1.2. Awareness of machine parts 1.3. Maintenance of machine 1.4. Basic machine embroidery stitches 1.4.1. Running stitch 1.4.2. Skip stitch 1.4.3. Long and short stitch 1.4.4. Running shade stitch 1.4.5. Skip shade stitch 1.4.6. Fancy stitches 1.4.7. Cord Work 1.4.8. Applique Work 1.4.9. Elyat Stitch, 1.4.10. Hole stitch 1.4.11. Chicken stitch 1.4.12. French Knot stitch 1.4.13. Pin stitch 1.4.14. Velvet stitch	12	60
2.	Cut Work (Machine) 1.5. Introduction of cut work techniques 1.6. Application of Cut work Techniques 1.6.1. Button hole 1.6.2. Combination of other embroidery stitches 1.7. Cutting techniques 1.7.1. With scissor 1.7.2. With solder	8	20

3.	Quilting 2.1. Introduction to Quilting techniques 2.1.1. English quilting 2.1.2. Italian or corded quilting 2.1.3. French or sectional quilting 2.2. Tacking of 3 layers(basic fabric poddling polyster lines) 2.3. Practice of quilting techniques	10	30
4.	Final Projects 4.1 Sampler file will be completed including samples of 10"x12" for each technique	4	26
Total		34	136

8. Computer Foundation

Sr. No.	Detail of Contents	Theory Periods	Practical Periods
1.	Basics of Computer 1.1. Introduction to Computer 1.2. Types of Computer 1.3. Data & Information 1.4. Computer Hardware, Peripherals & Cables 1.4.1. Input Devices 1.4.2. Output Devices 1.4.3. Storage Devices 1.5. Computer Software & its Types 1.6. Operating System 1.7. Windows Operating System 1.7.1. Windows Interface 1.7.2. Creating, Maintaining & Saving Files in an Windows Operating System	06	10
2.	Microsoft Office Suite 2010 2.1. Microsoft (MS) Word 2.1.1. Interface 2.1.2. Menu Bar 2.1.3. File Menu 2.1.3.1. Creating a document 2.1.3.2. Opening a document 2.1.3.3. Saving a document 2.1.3.4. Editing and Maintaining Documents 2.1.4. Fonts 2.1.4.1. Font style 2.1.4.2. Font sizes 2.1.4.3. Font Effects 2.1.4.4. Font Colors	07	60

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	<p>2.1.5. Bullets & Numberings</p> <p>2.1.6. Insert Menu</p> <p>2.1.6.1. Tables</p> <p>2.1.6.2. Clip Art</p> <p>2.1.6.3. Shapes</p> <p>2.1.6.4. Pictures</p> <p>2.1.6.5. Charts</p> <p>2.1.6.6. Word Art</p> <p>2.1.6.7. Text Box</p> <p>2.1.6.8. Header & Footer</p> <p>2.1.6.9. Symbols</p> <p>2.1.7. Formatting of documents</p> <p>2.1.7.1. Paragraph</p> <p>2.1.7.2. Line Spacing</p> <p>2.1.7.3. Text Alignment</p> <p>2.1.7.4. Boarder and shading</p> <p>2.1.7.5. Auto text</p> <p>2.1.7.6. Margins</p> <p>2.1.8. Printing a Document</p> <p>2.2. Microsoft Excel</p> <p>2.2.1. Interface</p> <p>2.2.2. File Menu</p> <p>2.2.2.1. Creating a Spreadsheet</p> <p>2.2.2.2. Opening a spread sheet</p> <p>2.2.2.3. Saving a spreadsheet</p> <p>2.2.3. Editing a spreadsheet</p> <p>2.2.3.1. Cut, Copy & Paste</p> <p>2.2.3.2. Undo , Redo</p> <p>2.2.3.3. Editing a Cell</p> <p>2.2.3.4. Fill, Auto Fill</p> <p>2.2.4. Insert Menu</p>		
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	<ul style="list-style-type: none"> 2.2.4.1. Cell, Row & Columns 2.2.4.2. Sheet 2.2.4.3. Tables 2.2.4.4. Charts 2.2.4.5. Illustrations 2.2.4.6. Text 2.2.4.7. Symbols 2.2.5. Page Layout <ul style="list-style-type: none"> 2.2.5.1. Themes 2.2.5.2. Page setup 2.2.5.3. Scale to fit 2.2.5.4. Sheet options 2.2.5.5. Arrange 2.2.6. Working with formulas <ul style="list-style-type: none"> 2.2.6.1. Function Library 2.2.6.2. Calculation 2.2.7. Printing and Printing options 		
	<p>2.3. Microsoft PowerPoint</p> <ul style="list-style-type: none"> 2.3.1. Interface 2.3.2. File Menu <ul style="list-style-type: none"> 2.3.2.1. Opening a presentation 2.3.2.2. Saving a Presentation 2.3.3. Home tab <ul style="list-style-type: none"> 2.3.3.1. Adding New slides 2.3.3.2. Slide layouts 2.3.3.3. Drawing & Arranging shapes 2.3.4. Insert Menu <ul style="list-style-type: none"> 2.3.4.1. Tables 2.3.4.2. Images 2.3.4.3. Illustrations 2.3.4.4. Links 		

	2.3.4.5. Text 2.3.4.6. Symbols 2.3.4.7. Media 2.3.5. Design Menu 2.3.5.1. Page Setup 2.3.5.2. Themes 2.3.5.3. Background 2.3.6. Transition 2.3.7. Animations 2.3.8. Slide Show 2.3.9. Printing & Printing Options		
3.	Introduction to the Corel Draw 2.4. Introduction to Corel Draw Toolbars 2.4.1. Units of measurement 2.4.2. Drawing tools 2.4.3. Editing tools 2.4.4. Drawing with CorelDraw 2.5. Creating objects 2.5.1. Freehand tool 2.5.2. Shape tool 2.5.3. Knife tool 2.5.4. Eraser tool 2.5.5. Basic drawing shapes 2.5.6. Rectangle tool 2.6. Basic concepts 2.6.1. Objects and curves 2.6.2. Copying the objects 2.6.3. How to join lines 2.6.4. Grouping and combining 2.7. View 2.7.1. Normal	06	30

	<p>2.7.2. Full screen preview</p> <p>2.7.3. Preview selected only</p> <p>2.7.4. Page sorter preview</p> <p>2.7.5. Ruler, grid, gridline</p> <p>2.7.6. Show</p> <p>2.7.7. Snap to grid, gridline, objects</p> <p>2.7.8. Grid, ruler, gridlines and snap to object setup</p> <p>2.8. Layout</p> <p>2.8.1. Insert, delete and rename page</p> <p>2.8.2. Go to page</p> <p>2.8.3. Switch page</p> <p>2.8.4. Page setup and background</p> <p>2.9. Arrange</p> <p>2.9.1. Transformations & clear transformations</p> <p>2.9.2. Align and distribute</p> <p>2.9.3. Order, group & ungroup etc.</p> <p>2.10. Effect</p> <p>2.10.1. Adjust</p> <p>2.10.2. Transform</p> <p>2.10.3. Correction</p> <p>2.10.4. Artistic media etc.</p> <p>2.11. Bitmaps</p> <p>2.11.1. Convert to bitmap</p> <p>2.11.2. Edit, crop, trace, inflate bitmap</p> <p>2.11.3. Bitmap color mask</p> <p>2.11.4. Apply different effects</p> <p>2.12. Text</p> <p>2.12.1. Format, edit text</p> <p>2.12.2. Insert character</p> <p>2.12.3. Fit text to path & frame</p>		
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	2.12.4. Link, unlink 2.12.5. Tool 2.12.6. Apply different tool menu options 2.13. Window 2.13.1. New window 2.13.2. Display window in different 2.13.3. Color palettes 2.13.4. Dockers 2.13.5. Toolbars		
4.	3. Adobe Photoshop 3.1. Introduction To Adobe Photoshop 3.1.1. Interface of the software 3.2. Menu Bar 3.2.1. Creating New Files, Paper Sizes, 3.3. Colors, Swatches & Styles 3.4. Tool Bar 3.4.1. Pick Tool 3.4.2. Marquee Tool 3.4.3. Lasso Tool 3.4.4. Magic Wand 3.4.5. Cropping 3.4.6. Brushes 3.4.7. Clone Stamps 3.4.8. Eraser 3.4.9. Fill & Gradient Tool 3.4.10. Pen Tool 3.4.11. Text Tool 3.4.12. Shapes Tools 3.5. Working with Layers 3.5.1. Creating, copying, editing & deleting layers 3.5.2. Layer Properties	06	30

	3.5.3. Layer Styles 3.5.4. Layer Masking 3.5.5. Grouping and Merging Layers 3.6. Using Edit Menu 3.6.1. Cut, Copy, Paste 3.6.2. Color Fill 3.6.3. Stroke 3.6.4. Transformation (scale, rotate, skew, distort, warp Flip) 3.7. Using Image Menu for Image Editing Image Modes 3.7.1. Adjustments (Color Balance, Brightness, Contrast, Hue, Saturation) 3.7.2. Photo Filters 3.8. Using Filters		
5.	Adobe Illustrator 5.1. Introduction to Adobe Illustrator 5.2. Interface of the Software 5.3. Menu Bar 5.3.1. File Menu 5.4. Edit Menu (Cut, Cop, Paste, Edit Colors, Color Settings) 5.5. Object (Transform, Live Paint, Live Tracing, Envelope Distort, Group, Path, Blend, Pattern) 5.6. Type (font, Size) 5.7. Tool Bar 5.7.1. Pen tool 5.7.2. Shape Tool 5.7.3. Paint Bucket 5.7.4. Paint Bucket	05	30

	5.7.5. Text Tool 5.7.6. Lasso Tool 5.8. Overview of Panel		
6.	6. Internet & Electronic Mail 6.1. Introduction to WWW 6.2. Internet Service Provider 6.3. Internet Explorer 6.4. Address Bar 6.5. Select a Link 6.6. Search a Web 6.7. Introduction to E-mail 6.8. Create a message 6.9. Send and Receive E-Mail	04	10
Total		34	170

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Lists of Practical**For 9th Class****List of Practical: Drafting and Sewing I****1. Drafting**

- 1.1 Take direct body measurement
- 1.2 Practice the scale reading

2. Sewing

- 2.1 Exercise the sewing Machines by handling each part

3. Seams and finishes

- 3.1 Exercise of different seams straight, curved, diagonal
- 3.2 Exercise of Hemming, visible and invisible
- 3.3 Exercise of button holes and buttons
- 3.4 Exercise of zippers visible and invisible
- 3.5 Exercise of piping straight, round and dori piping

4. Fiber

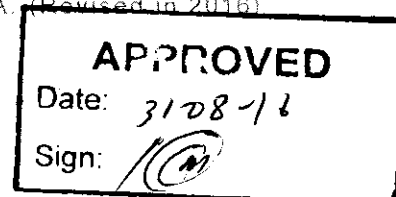
- 4.1 Check the physical properties cotton, wool, silk, acetate, Rayon, polyester.

5. Drafting of children garment**A. Girls garments**

- 5.1 Drafting of waist fitted frock and its cutting
- 5.2 Drafting of blouse and skirt and its cutting
- 5.3 Drafting of pleated skirt and its cutting
- 5.4 Drafting of straight skirt with vent

B. Boys garments

- 5.5 Drafting of boy's shirt and its cutting with all components
- 5.6 Drafting of boy's pant and its cutting with all components



List of Practical: Hand Embroidery

1. Introduction to embroidery

- 1.1 Exercise of motifs and design development on floral topic
- 1.2 Exercise of design repeat development on floral topic
- 1.3 Exercise of tracing of design on fabric

2. Different types of hand stitches

- 2.1 Exercise of basic hand stitches stem stitch, Satin stitch, Long and short stitch, Chain, Lazy Daisy Stitch, Double Lazy Daisy Stitch, Cross Stitch, Double Cross Stitch, Knot Stitches, Double Knot, Bullion Knot, French Knot, Couching, Herring Bone, Feather Stitch, Double Feather stitch, Spider Stitch, Wheel Stitch, French knot stitch, Herring bone stitch, Bullion knot, Double Knot stitch.
- 2.2 Exercise of stitches on 8x8 inches design

3. Patch work

- 3.1 Exercise of different shapes used in patch work
- 3.2 Exercise of patch work on 8x8 inches square box with a proper design using any method buttonhole or Heming method

4. Cut work (Hand)

- 4.1 Exercise of hand cutwork with different stitches and cut work cutting method

5. Embellishments

- 5.1 Exercise of all items used in Ada work techniques (needles, threads, decorative items sitara, Kora, dubka and gota work etc)
- 5.2 Exercise of different materials beats & sitara with Ari needle
- 5.3 Exercise of different techniques on 8x8 inches square for ari and needle work.

List of Practical: Elements and Principles of Design**1. Elements of design**

- 1.1 Exercise of lines
- 1.2 Exercise of space, shape form and pattern
- 1.3 Exercise of primary & secondary colors
- 1.4 Exercise of color wheel
- 1.5 Exercise of 8x8 inches geometric design using tints and shades
- 1.6 Exercise of 8x8 inches Floral design using monochromatic color scheme
- 1.7 Exercise of 8x8 inches lines and butterfly design complementary and analogs color scheme.

2. Principles of design

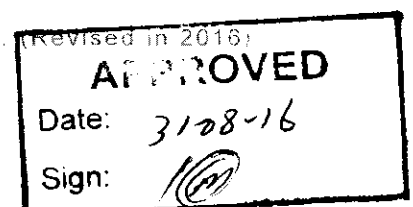
- 2.1 Exercise of formal informal balance and take textures
- 2.2 Exercise of proportion, rhythm & harmony
- 2.3 Exercise of emphasis and create a design of 8x8 inches keeping in mind the focal point.

3. Tools & Equipment Used For Drawing & Designing

- 3.1 Application of Different types of paints
- 3.2 Use of drawing boards and Cutting Tools
- 3.3 Demonstration for using tools in drawing & designing patterns

4. Pattern development

- 4.1 Exercise of nature study and create designs for it and scale a design on 8x8 inches
- 4.2 Exercise of side repeat, mirror repeat, block and diamond repeat and color the designs
- 4.3 Create a design from butterfly and cut its stencil



Lists of Practical**For 10th Class****List of Practical: Drafting and Sewing II****1. Ladies garments****1.1 Drafting**

- 1.1.1 Drafting of pattern for close fitted ladies shirt and its cutting
- 1.1.2 Drafting of straight cut pajama, churidar pajama, Capri and palazzo trouser and its cutting
- 1.1.3 Drafting of simple shalwar and its cutting
- 1.1.4 Drafting of belt shalwar and its cutting

1.2 Sewing

- 1.2.1 Sewing of close fitted ladies shirt.
- 1.2.2 Sewing of straight cut pajama, churidar pajama, Capri and palazzo
- 1.2.3 Sewing straight shalwar
- 1.2.4 Sewing of belt shalwar

2. Boys garment**2.1 Drafting**

- 2.1.1 Drafting of boys shirt and its cutting
- 2.1.2 Drafting of boys pant and its cutting

2.2 Sewing

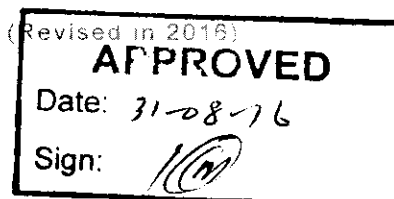
- 2.2.1 Sewing of boys shirt
- 2.2.2 Sewing of boys pant

3. Pattern alteration

- 3.1 Pattern alteration of small, medium, large and extra large sizes
- 3.2 Practice the Grading methods and techniques

4. Final project

- 4.1 Drafting and sewing of ladies suit with simple and belt shalwar
- 4.2 Drafting and sewing of boys shirt with all components
- 4.3 Drafting and sewing of boys pant with all components



List of Practical: Machine Embroidery**1. Machine embroidery**

- 1.1 Exercise of Basic machine embroidery stitches Running stitch, Skip stitch, Long and short stitch, Running shade stitch, Skip shade stitch, Fancy stitches, Cord Work, Appliqué' Work, Eyelet Stitch, Hole stitch, Chicken stitch, French Knot stitch, Pin stitch, Velvet stitch

2. Cut work machine

- 2.1 Exercise of cut work design of 8x8 inches with the help of machine and cut the design according to learnt methods

3. Quilting

- 3.1 Exercise of quilting design on 8x8 inches using English method with complete design
- 3.2 Exercise of quilting design on 8x8 inches using French sectional method with complete design
- 3.3 Exercise of quilting design on

List of Practical: Computer Foundation**1. Basics of Computer**

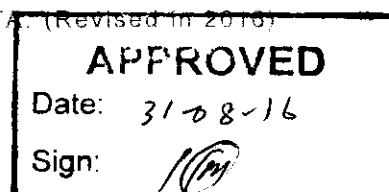
- 1.1 Working on Windows operating System
- 1.2 Creating Folders
- 1.3 Using Cut, Copy and Paste commands for Files and Folders
- 1.4 Finding a file or folder
- 1.5 Deleting a file or folder

2. Microsoft Word

- 2.1 Creating Document Files
- 2.2 Saving of files
- 2.3 Opening a file.
- 2.4 Using Fonts menu
- 2.5 Using Insert Menu (Tables, charts, Clipart, shapes, pictures, WordArt, header & footer and Symbols)
- 2.6 Formatting of Documents (Paragraph, Line spacing, Bullets, Numbering & Borders, Alignment, Margins)
- 2.7 Printing a Document
- 2.8 Creating a Magazine Article in MS Word

3. Microsoft Excel

- 3.1 Creating & Saving a spreadsheet
- 3.2 Opening & Editing a spreadsheet
- 3.3 Using Cut, Copy & Paste Commands
- 3.4 Using Fonts, Borders & Shadings
- 3.5 Creating a Time table in Excel
- 3.6 Using Formulas
- 3.7 Creating Electricity/Water or Gas bill in Excel
- 3.8 Page Setup & Layouts
- 3.9 Printing of a Spreadsheet



4. Microsoft PowerPoint

- 4.1 Using Design, Themes & Layouts
- 4.2 Making a Presentation
- 4.3 Adding Animation To a Presentation

5. Introduction to Corel Draw

- 5.1 Textile Design using Shapes
- 5.2 Textile Design using Text Tool and Path Tool
- 5.3 Using Transformation tool for design creation
- 5.4 Fashion Illustration Tracing & Rendering
- 5.5 Motif Tracing & Rendering
- 5.6 Motif Creation using different Effects
- 5.7 Textile Repeats creation

6. Adobe Photoshop

- 6.1 Design Creation using basic shapes
- 6.2 Motif Tracing
- 6.3 Making Mood Board
- 6.4 Making Textile Print with Image manipulation using filters

7. Adobe Illustrator

- 7.1 Design Creation using basic shapes
- 7.2 Design creation using symbols
- 7.3 Fashion illustration tracing & Rendering
- 7.4 Textile Pattern design
- 7.5 Textile Motifs & Repeats creation

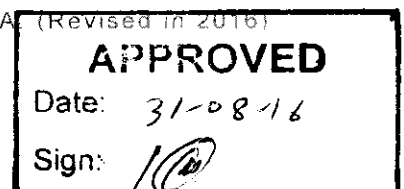
8. Internet & Electronic Email

- 8.1 Using Internet search engines
- 8.2 Creating Email Account
- 8.3 Sending an Email with attachment

LIST OF LABS:

Following labs will be Utilized/Engaged during this course:

1. Drafting Lab
2. Sewing Lab
3. Machine Embroidery Lab
4. Drawing and Designing Lab
5. Computer Lab.



LIST OF TOOLS / MACHINERY / EQUIPMENT / TOOLS

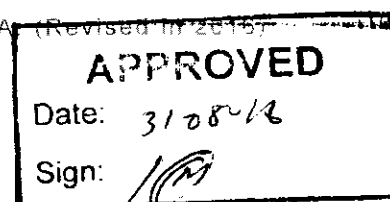
(For a Class of 25 Students)

Name of Trade	Matric vocational
Duration of Course	2 -Year

Drafting & Sewing

Sr. No.	Name of Tools & Equipment	Quantity
1.	French Curve	25 Nos.
2.	Notcher	01 No.
3.	Tracing wheel	25 Nos.
4.	Paper Shears, Fabric Shears, Pinking Shears	25 Nos.
5.	Japanese Ruler and Measuring Tapes	25 Nos.
6.	Stapler and Stapler Pins	02 Nos.
7.	Hand Punch	02 Nos.
8.	Pattern Sheets	02 Nos.
9.	Tracing Sheets	02 Nos.
10.	Drawing Boards	02 Nos.
11.	Box Board	02 Nos.
12.	Straight Pin and Thumb pin	25 Pkts.
13.	Needles assorted Hand and Machine	25 Pkts.
14.	Scissors. (6")	10 Nos.
15.	Sewing Machines (Electric)	25 Nos.
16.	Disc-matic Machines	02 Nos.
17.	Electric Iron	02 Nos.
Furniture		
1.	Teacher Chair	01 No.
2.	Student Chairs	25 Nos.
3.	Drafting Tables, size= (6' x 4'), height 36"	06 Nos.
4.	White Board / Marker Board	01 No.
5.	Teachers Table	01 No.

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Hand & Machine Embroidery

Sr. No.	Item	Quantity
1.	Electric Iron	2 Nos.
2.	Iron Stand	2 Nos.
3.	Steam Iron	1 No.
4.	Over Lock Machine	1 No.
5.	Button Hole Machine	1 No.
6.	Over Head Projector	1 No.
7.	Tracing Table, size = 6' x 4', height 3'	1 No.
8.	Display Boards 4' x 8'	6 Nos.
9.	Soft Board	1 No.
10.	Embroidery Sewing machine with electric motor & stand complete	25 sets
11.	Scissors 9"	25 Nos.
12.	Scale 12"	25 Nos.
13.	L-Squares (bakelite or wooden 2' x 1½')	25 Nos.
14.	Tracing Wheel	25 Nos.
15.	Inches Tape (measuring tape)	25 Nos.
16.	Small Scissors	25 Nos.
17.	Embroidery Needles	As required
18.	Set Square	25 Sets.
19.	Wooden Embroidery frames, size 10"	25 Sets.
20.	Needles assorted Hand and Machine	As required
Furniture		
1.	Drafting Table 6' x 4', height 3'	12 Nos.
2.	Stand Table 3' x 2'	25 Nos.
3.	White Board (Writing Board)	1 No.
4.	Student Chair Without Arm	25 Nos.
5.	Teacher Table	1 No.
6.	Teacher Chair With Arm	1 No.


Elements & Principles of Drawing & Design

Sr. No.	Name of Tools & Equipment	Quantity
1.	Sketch files	25 No
2.	Pencils	25 No
3.	Erasers	25 No
4.	Sharpeners	25 No
5.	Scales	25 No
6.	Poster colors (Red, Blue, Yellow, white, Black)	5 sets
7.	Pallets	25 No
8.	Brushes 03,07	25 No
9.	Pointers 0.1, 0.3	25 No
10.	Water containers	25 No
11.	Tracing papers	25 No
12.	Scissors	25 No
Furniture		
7.	Drawing Boards	25 Nos.
8.	Stools	25 Nos.
9.	White Board (Writing Board)	1 No.
10.	Teacher Table	1 No.
11.	Teacher Chair With Arm	1 No.

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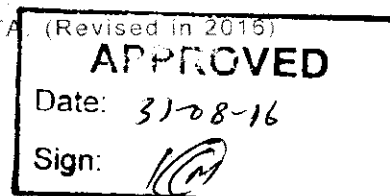
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Computer Foundation

Sr. No.	Name of Tools & Equipment	Quantity
1.	Computer system as Server with CD/DVD writers	1
2.	Computer system C2D with LCD Screen	25
3.	UPS	1
4.	Printer	1
5.	Scanner	1
6.	Air conditioner	1
7.	Project multimedia	1
8.	Internet connection	-
Furniture		
1.	Hydraulic Chairs	25
2.	Computer Tables	25
3.	Teacher Table	1 No.
4.	Teacher Chair With Arm	1 No.
5.	White Board (Writing Board)	1 No.

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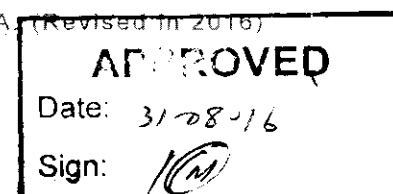
Matric Vocational (2 Years Course)**List of Consumable Materials****1. Drafting & Sewing**

Sr. No.	Name of Material
1.	Clutch Pencil
2.	Lead pencil
3.	Eraser
4.	Pattern sheets
5.	Box board
6.	Stapler
7.	Stapler pins
8.	Staple pin remover
1.	Cotton cloth for practice of all projects
2.	Thread cons matching fabric
3.	Hand needles
4.	Tailoring chalk
5.	Scale
6.	Machine Needles
7.	Bobbin Cases
8.	Bobbins
9.	Blanket for iron table

2. Hand & Machine Embroidery

Sr. No.	Name of Material
1.	Cotton cloth for practice
2.	Thread skeins for Embroidery (Anchor) (silky) of different colors
3.	White thread reels
4.	Frame 7 inches
5.	Machine Needles (16, 11)
6.	Scissors 4 inches
7.	Tracing paper
8.	Carbon Paper
9.	Cord reels
10.	Pencils
11.	Erasers
12.	Sharpeners
13.	Scale
14.	File for file work
15.	Tilla, dabka
16.	Beads of different shapes & sizes
1.	Ribbon of different colors

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3. Elements and Principal of Drawing & Design

Sr. No.	Name of Material
1.	Drawing Sheet/ Scholar Sheet
2.	Charcoal
3.	Pencil B2, B12
4.	Scissors
5.	Glazing Papers
1.	Scale
2.	set square
3.	Tracing sheets
4.	Glue
5.	Scotch tape
6.	Masking tape

4. Computer Foundation

Sr. No.	Name of Material
1.	Printer inks/cartridge (CMYK)
2.	Board markers
3.	Printing paper
4.	Color printing Paper/ Sheet/Art Card

MINIMUM QUALIFICATION OF TEACHER / INSTRUCTOR

Subject	Qualification
Drafting & Sewing	<ul style="list-style-type: none"> • M.S. / M.Phil Home Economics (Textile and Clothing) OR • M.T.E (Masters in technical education) OR • B.Sc. Home Economics (Textile and Clothing) with 1- Year relevant experience OR • 3- years D.D.M (with 2- Year relevant experience) OR • Fashion Design 1-Year (with 3- Year relevant experience)
Hand Embroidery	
Machine Embroidery	
Elements & Principals of Drawing & Designing	
English	<ul style="list-style-type: none"> • M.A English (with 1-Year relevant experience)
Mathematics	<ul style="list-style-type: none"> • M.Sc Mathematics (with 1-Year relevant experience)
Islamiyat	<ul style="list-style-type: none"> • M.A islamiat (with 1-Year relevant experience)
Urdu	<ul style="list-style-type: none"> • B.A. (Relevant Subject) with B.Ed. • Preference will be given to Masters in relevant subject
Pakistan Studies	
Computer Foundation	<ul style="list-style-type: none"> • B.C.S / B.s Computer Sciences (with 1-Year relevant experience)

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REFERENCE BOOKS

Sr. No.	Book Title	Author
1.	Modern Tailoring for Women	Frances F Mawk
2.	Clothing for Children	Henrietta Mary Thompsan
3.	A Tailoring manuals	Gertude Stirkckland
4.	Your Cloths & Personality	Ryan Graves Mildred
5.	Bachon key Malboosat	Nadra Moeen
6.	Libass	Saeeda Ghani
7.	Crewel embroidery	Barbra Snook
8.	This is knitting	Ethal Evans
9.	Thread lines Pakistan	Felicca Yacopius
10.	Complete guide to needle work	Virginia Cotton
11.	Embroidery for beginners	Ondori
12.	Appliqué	Adelia Rabina
13.	The craft of crochet	Pan Dawson
14.	Dress Pattern Designing	The Basic principles of cut & fit writer Natalie Bray
15.	The Technology of clothing Manufacture 2nd Edition.	Harold Lara and Barbara Latham
16.	Patter Cutting Made Easy	Gillian Holman & step by step
17.	Knitting for the just	Vanessa – Ann-
18.	Sites machine Knits	Judy Dodson
19.	Step by step sewing Lourse.	Readers Digest
20.	Textile Designing	K Pervades.
21.	Betty Therapy	The foundation Lorraine NordmanaCend 2-3-
22.	Flower Arranging	Jane Newdick
23.	Flower Craft	Jenny Raworth & Susan Berry
24.	The Book of Pot Pourri	Penny Black

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EMPLOYABILITY OF PASS-OUTS

The pass outs of this course may find job / employment opportunities in the following areas / sectors: -

1. Self Employment
2. Garments Industry
3. Boutique and industrial homes.
4. Instructor in vocational and Technical institutes.

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Date: 31-08-16

Sign: 