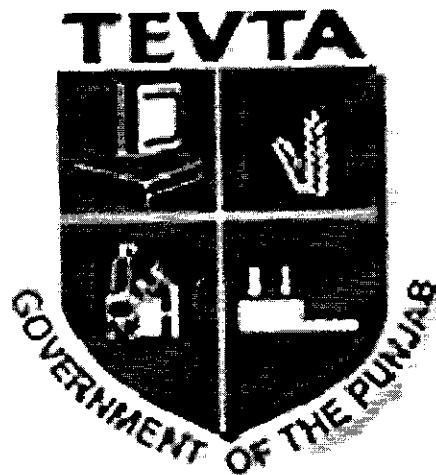
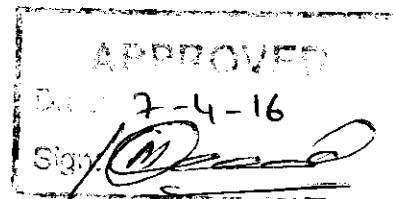


GOVERNMENT OF THE PUNJAB  
TECHNICAL EDUCATION & VOCATIONAL  
TRAINING AUTHORITY



CURRICULUM FOR  
**WEB DESIGNING**  
(3 – Months Course)  
Revised April 2016



CURRICULUM SECTION  
**ACADEMICS DEPARTMENT**  
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Ph # 042-99263055-9, 99263064  
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## Web Designing (3-Months Course)

### TRAINING OBJECTIVES

Objective of this three months course is to impart basic theoretical and practical knowledge about the latest technology of Web & Graphics Designing to the trainees so that they become professionals to start a career as Web/ Graphics Designer and earn their livelihood, however, a trainee can mend his way to get higher grade of expertise by his hard work or by natural talent. The course will produce the semi-skilled technical manpower equipped with IT skills and knowledge including world-wide web and Internet, constructing a website, using graphics & fonts for web designing, site navigation, creating a website & using cascading style sheets, using the modern tools like J Query, Swish Max, Adobe Dreamweaver CC and Java Scripting by obtaining their basic knowledge.

### CURRICULUM SALIENTS

Entry Level:	Matric + Basic Computer Certificate with graphics designing
Total Duration of Course:	3 Months
Total Training Hours:	400 Contact Hours
Training Methodology:	80 % Practical 20 % Theory
Medium of Instruction:	Urdu / English

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**SKILL COMPETENCY DETAILS**

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

1. Work with Adobe Photoshop CC.
2. Work with J Query.
3. Create web pages using HTML.
4. Work with Cascade Style Sheets.
5. Create website using Adobe Dreamweaver.
6. Create simple scripts using Java Script.
7. Launch Websites online.

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**KNOWLEDGE PROFICIENCY DETAILS**

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

1. Describe the significance of Web Designing.
2. Describe the latest Web Designing tools.
3. Explain the various functions of Adobe Photoshop.
4. Explain the various functions of HTML.
5. Explain the various functions of Cascade Style Sheets.
6. Explain the various functions of Adobe Dreamweaver.
7. Explain the various functions of J Query.
8. Describe the various functions of Java Scripting.


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**SCHEME OF STUDIES**

**Web Designing Course  
(3- Months)**

S. No.	Main Topics	Theory Hours	Practical Hours	Total Hours
1.	Introduction to Web Designing	4	0	4
2.	Web designing using HTML 5.0	10	52	62
3.	Web Designing using Adobe Dreamweaver CC	10	52	62
4.	Graphics Designing using Adobe Photoshop	6	56	62
5.	Introduction to Java Script	10	78	88
6.	Animation Designing using JQuery and Swish Max	8	52	60
7.	Uploading and maintaining website	4	18	22
8.	Functional English	15	25	40
<b>Total</b>		<b>67</b>	<b>333</b>	<b>400</b>

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**Detail of Course Contents**

**(Web Designing)**


**3-Months Course**

Sr. No.	Detail of Topics	Theory Hours	Practical Hours
1.	<b>1. Introduction to Web Designing</b> 1.1 Types of Website 1.2 What is web designing 1.3 Web Components	4	-
2.	<b>2. Web designing using HTML 5.0</b> 2.1 Overview of Web Development 2.2 Fundamentals of Site Design. 2.3 Introduction to HTML Tags & HTML Syntax ; HTML 5 and XHTML 2.4 Browser Comparisons (Netscape, IE, Opera) 2.5 Formatting an HTML Document and Text Formatting 2.6 Applying Text Attributes 2.7 Creating Lists 2.8 Creating Hyperlinks. 2.9 Creating Simple Tables 2.10 Creating Complex Tables 2.11 Using Tables as a Layout Tool 2.12 Creating Forms 2.13 Capturing Information from Forms	10	52
3.	<b>3. Web Designing using Adobe Dreamweaver</b> 3.1 Exploring the user Interface 3.2 Setting up the Dreamweaver Workspace 3.3 Creating a New Website 3.4 Inserting Images 3.5 Cropping an Image 3.6 Inserting text 3.7 Using Dreamweaver Sample Style Sheets. 3.8 Set CSS page font, background colour, and background image. 3.9 Div Tags and CSS 3.10 Create and Apply a Class 3.11 Adding Hyperlinks 3.12 Lists 3.13 Creating Table 3.14 Search For and Replace Text 3.15 Import and Export Site Settings	10	52

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**Web Designing (3-Months Course)**


<p><b>4.</b></p>	<p><b>4. Graphics Designing using Adobe Photoshop</b>            4.1 Basics            4.2 Tools and Palettes            4.3 Image            4.4 Color adjustment            4.5 Quality' adjustment            4.6 Transformation            4.7 Brushes            4.8 Selections            4.9 Layers</p>	<p><b>6</b></p>	<p><b>56</b></p>
<p><b>5.</b></p>	<p><b>5. Java Script</b>            5.1 What is JavaScript?            5.2 Client Side vs. Server Side            5.3 JavaScript Placement in HTML File            5.4 JavaScript and Case Sensitivity            5.5 Variables            5.6 Comments            5.7 Functions            5.8 User-Defined Functions            5.9 What Time is it?            5.10 Using prompt ( ) function            5.11 Using get Element ById function            5.12 Attaching an External JavaScript File            5.13 JavaScript an Event Driven Language            5.14 Arithmetic Operators            5.15 Conditional Statements            5.16 Loops            5.17 Objects            5.18 Using Cookies            4.19 Data Format Validation            4.20 Drop-down menu for site navigation</p>	<p><b>10</b></p>	<p><b>78</b></p>
<p><b>6.</b></p>	<p><b>6. Animation Designing using JQuery and Swish Max</b>  <b>JQuery</b>  <b>1. jQuery Basics</b>            1.1 Including the jQuery Library Code in an HTML page            1.2 Executing jQuery/JavaScript Coded After the DOM Has Loaded but Before Complete Page            1.3 Selecting DOM Elements Using Selectors and the jQuery Function            1.4 Selecting DOM Elements Within a Specified</p>	<p><b>8</b></p>	<p><b>52</b></p>

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**Web Designing (3-Months Course)**

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	<p>Context</p> <ul style="list-style-type: none"><li>1.5 Filtering a Wrapper Set of DOM Elements</li><li>1.6 Finding Descendant Elements Within the Currently Selected Wrapper Set</li><li>1.7 Returning to the Prior Selection Before a Destructive Change</li><li>1.8 Including the Previous Selection with the Current Selection</li><li>1.9 Traversing the DOM Based on Your Current Context to Acquire a New Set of DOM Elements</li><li>1.10 Creating, Operating on, and Inserting DOM Elements</li><li>1.11 Removing DOM Elements</li><li>1.12 Replacing DOM Elements</li><li>1.13 Cloning DOM Elements</li><li>1.14 Getting, Setting, and Removing DOM Element Attributes</li><li>1.15 Getting and Setting HTML Content</li><li>1.16 Getting and Setting Text Content</li><li>1.17 Using the \$ Alias Without Creating Global Conflicts</li></ul> <p><b>2. Selecting Elements with jQuery</b></p> <ul style="list-style-type: none"><li>2.1 Selecting Child Elements Only</li><li>2.2 Selecting Specific Siblings</li><li>2.3 Selecting Elements by Index Order</li><li>2.4 Selecting Elements That Are Currently Animating</li><li>2.5 Selecting Elements Based on What They Contain</li><li>2.6 Creating a Custom Filter Selector</li></ul> <p><b>3. Beyond the Basics</b></p>		
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## Web Designing (3-Months Course)

	<ul style="list-style-type: none"><li>3.1 Looping Through a Set of Selected Results</li><li>3.2 Reducing the Selection Set to a Specified Item</li><li>3.3 Convert a Selected jQuery Object into a Raw DOM object</li><li>3.4 Getting the Index of an Item in a Selection</li><li>3.5 Making a Unique Array of Values from an Existing Array</li><li>3.6 Performing an Action on a Subset of the Selected Set</li><li>3.7 Configuring jQuery Not to Conflict with Other Libraries</li></ul> <p><b>4. jQuery Utilities</b></p> <ul style="list-style-type: none"><li>4.1 Detecting Features with jQuery.support</li><li>4.2 Iterating Over Arrays and Objects with jQuery.each</li><li>4.3 Filtering Arrays with jQuery.grep</li><li>4.4 Iterating and Modifying Array Entries with jQuery.map</li><li>4.5 Combining Two Arrays with jQuery.merge</li></ul> <p><b>5. Faster, Simpler, More Fun</b></p> <ul style="list-style-type: none"><li>5.1 That's Not jQuery, It's JavaScript!</li><li>5.2 What's Wrong with \$(this)?</li><li>5.3 Removing Redundant Repetition</li><li>5.4 Formatting Your jQuery Chains</li><li>5.5 Borrowing Code from Other Libraries</li><li>5.6 Writing a Custom Iterator</li><li>5.7 Toggling an Attribute</li><li>5.8 Finding the Bottlenecks</li></ul> <p><b>6. Dimensions</b></p> <ul style="list-style-type: none"><li>6.1 Finding the Dimensions of the Window and</li></ul>		
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## Web Designing (3-Months Course)

	<p>Document</p> <p>6.2 Finding the Dimensions of an Element</p> <p>6.3 Finding the Offset of an Element</p> <p>6.4 Scrolling an Element into View</p> <p>6.5 Determining Whether an Element Is Within the Viewport</p> <p>6.6 Centering an Element Within the Viewport</p> <p><b>7. Effects</b></p> <p>7.1 Sliding and Fading Elements in and out of View</p> <p>7.2 Making Elements Visible by Sliding Them Up</p> <p>7.3 Creating a Horizontal Accordion</p> <p>7.4 Simultaneously Sliding and Fading Elements</p> <p>7.5 Applying Sequential Effects</p> <p>7.6 Determining Whether Elements Are Currently Being Animated</p> <p>7.7 Stopping and Resetting Animations</p> <p><b>8. Events</b></p> <p>8.1 Attaching a Handler to Many Events</p> <p>8.2 Reusing a Handler Function with Different Data</p> <p>8.3 Removing a Whole Set of Event Handlers</p> <p>8.4 Triggering Specific Event Handlers</p> <p>8.5 Passing Dynamic Data to Event Handlers</p> <p>8.6 Accessing an Element ASAP (Before document. Ready)</p> <p>8.7 Stopping the Handler Execution Loop</p>		
<b>7.</b>	<b>7. Uploading Website</b>	<b>4</b>	<b>18</b>
	7.1 Using FTP to upload website		
	<b>Total</b>	<b>52</b>	<b>308</b>

**LIST OF PRACTICALS**

**Web designing using HTML 4.0**

1. Design one HTML page by applying tags of Bold, Italic, Underline, Marquee, and background colour.
2. Design an HTML page with at least two links like ([www.yahoo.com](http://www.yahoo.com), [www.google.com](http://www.google.com)) with background image on the page.
3. Write an HTML document with an example of Ordered List and Unordered List.
4. Write an HTML document with an example of Table format to print your Bio-Data.
5. Write an HTML document with an example of Table format to print your Telephone Bill.
6. Develop a complete web page using Form for patient- information with Frames and Frameset which gives the Information about Hospital.
7. Write an HTML code for designing the subscription form of mail account in the e-mail website with appropriate fields.
8. Write an example of Style Sheet.
9. Create an HTML document of giving details of your name, age, telephone no, address and enrolment no, aligned in proper order.
10. Write HTML code to create a web page of green color and display a greeting message in yellow color.

**Web designing using Dreamweaver**

1. Create a table in Dreamweaver
2. Develop a template for a user fill in an application
4. Design a web page using Cascading Style Sheets
5. Arrange a page showing a numbered or ordered list
6. Make one page of rollover images
7. Apply anchors on a page for quick navigation
8. Provide a link on a page that opens a new, smaller browser window
9. Develop an image map in Dreamweaver

## Web Designing (3-Months Course)

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10. Create a page using META tags, keywords and descriptions into a page
11. Wrapping text around an image
12. Using HTML styles (for text)
13. Making a Web form
14. Enhancing layout with invisible pixel GIFs
15. Using "Make Column Autostretch" for layout tables
16. Inserting "mailto" links
17. Putting a search engine on your site (not Dreamweaver function - see me for help)
18. Inserting a page background image or creating a colored page background
19. Changing background colors, borders, cell padding, etc. in tables
20. Using layers to layout a page

## Graphic Designing using Adobe Photoshop

1. Use of Brushes
2. Selection Tools
3. How to use layers in designing
4. Make a page using blended mode
5. Using Transform Tools
6. How to implement a masking on different photos
7. Show how an image adjustment is used
8. Using clone stamp feature on a photo
9. How to apply filters
10. Apply layer style on a photo

## Java Script

1. Insert JavaScript Code in HTML File
2. Declare three variables in JavaScript
3. Add comments to JavaScript code
4. Declare, define and call user-defined functions in JavaScript

## Web Designing (3-Months Course)

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5. Use prompt () function
6. Use getElementById function
7. Use arithmetic operators to calculate two given numbers
8. Use conditional Statements to show passing grades
9. Use loops to add 10 given numbers
10. Create a drop down menu with 3 options for site navigation

## Animation Designing using JQuery and Swish Max

1. Write two action scripts for click
2. Inter Frame navigation script
3. Write text and apply effects
4. Draw a circle and change colour
5. Import an image into JQuery
6. Use URL and mailto links in JQuery.
7. Draw OK and Cancel Button. Apply animations also.
8. Create scrolling text and apply alternate effects
9. create a motion panel
10. Apply 3D spin effects to text
11. Apply vortex, wave, typewriter effects to text
12. Apply play sound action

## Uploading Website

1. Create a website of your college consisting three web pages
2. Use FTP to upload this website

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**SCHEME OF STUDIES**  
**Functional English**

<b>S.No</b>	<b>Main Topics</b>	<b>Theory Hours</b>	<b>Practical Hours</b>	<b>Total Hours</b>
1.	Introduction of English Sentence Structure	2	3	5
2.	Use of present indefinite tense	2	3	5
3.	Use of 'is' 'are' 'am' questions and negatives	2	3	5
4.	Ask questions	2	3	5
5.	Express daily routines	2	3	5
6.	Know how to address people	1	2	3
7.	Provide written feedback	1	2	3
8.	Dialogues	1	2	3
9.	Understand vocabulary	1	2	3
10.	Application/C.V.	1	2	3
<b>Total</b>		<b>15</b>	<b>25</b>	<b>40</b>

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**DETAIL OF COURSE CONTENTS**  
Functional English

S. No	Detail of Topics	Theory Hours	Practical Hours
1.	Introduction of English sentence structure	2	3
2.	Use of present indefinite tense with exercises	2	3
3.	Use of 'is' 'are' 'am' questions and negatives	2	3
4.	4.1 Ask questions 4.1.1 At work place 4.1.2 In the market 4.1.3 In classroom	2	3
5.	5.1 Express daily routines 5.1.1 Before going to college 5.1.2 Dealing with colleagues 5.1.3 Going to market	2	3
6.	6.1 Know how to address people 6.1.1 In Meetings 6.1.2 In class	1	2
7.	7.1 Provide written feedback 7.1.1 After visiting the market 7.1.2 On some official task	1	2
8.	8.1 Dialogues 8.1.1 With colleague 8.1.2 Teacher/student 8.1.3 Employer/employee 8.1.4 Booking on railway station	1	2
9.	Understand vocabulary	1	2
10.	Application / C.V.	1	2
<b>Total</b>		<b>15</b>	<b>25</b>

**LIST OF PRACTICALS**  
Functional English

S. No.	Practical
1.	Group discussion
2.	Interviews
3.	Role play

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Web Designing (3-Months Course)

LIST OF LABS

- Computer Lab with internet connection

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**LIST OF TOOLS AND EQUIPMENT**  
(For a Class of 25 Students)

<b>Name of Trade</b>	<b>Web Designing</b>
<b>Duration of Course</b>	<b>3 - Months</b>

<b>S. No.</b>	<b>Tools / Equipments</b>	<b>Quantity</b>
1.	Server (Specification as per MIS TEVTA Notification)	01
2.	Client Computers (Specification as per MIS TEVTA Notification)	25
3.	DSL Internet Connection (minimum 1 MB)	01
4.	Printer	01
5.	Scanner	01
6.	Networking	---

The specifications of Tools/Equipment should be as per latest Notification issued by MIS Department of TEVTA

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LIST OF CONSUMABLES

S. No.	Item	Quantity
1.	Printing Paper	As per requirement
2.	Printer Toner	As per requirement

Functional English

S. No.	Item	Quantity
1.	Stationery	As per requirement
2.	Board Markers	As per requirement

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**EMPLOYABILITY OF PASS-OUTS**

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

- I.T Industry
- Marketing & Advertisement
- Textile Designing
- E-Commerce
- Computer Departments
- Web Designer

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**MINIMUM QUALIFICATION OF INSTRUCTOR / TEACHER**

- BCS (04-Year) OR BS / M.Sc. in Computer Science from HEC recognized University with Minimum 02 Years of teaching experience.

**Functional English**

- M.A. (English)

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**REFERENCE BOOKS**

<b>Sr. No.</b>	<b>Title of Book</b>	<b>Name Of Author</b>
1.	Mastering HTML 5.0	Deborah S. Ray, Eric J. Ray
2.	Beginning JavaScript	Paul Wilton, Jerem
3.	Designing for the Web	Mark Boulton
4.	Teach Yourself visually Photoshop CS5 2010	Mike Wooldridge
5.	Beginning jQuery (Apress)	Jack Franklin

**Functional English**

1. High School English Grammar By Wren & Martin
2. Oxford English Grammar

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**LIST OF TRADE RELATED JARGON**

HTML	Dreamweaver	Jquery & Swish Max	Java Scrip
Tags	Align property	Drawing Tools	Function
Elements	Alt tag	Media Effects	Var
Body text	Anchor	Animation	Return
Hypertext	Time stamp	3D	IIF
Hyperlink	Vertical space	Cookies	Phrase
URL	View	Frame	Strict
Font	View menu	TimeLine	Console
Class	White space	Gradient Transfer	Exit
Body	Web-safe color	Eyedropper tool	getElementByld()
Href	Workspace	Lasso Tool	Inner HTML
Id	PNG	Ink Bottle	Button
Comments	Web	Stroke Colour	On Click
<b>Adobe Photoshop</b>			
Layers	Blending	Brush Shapes	Distort
Mask	Group	Eraser	Noise
Selection Tools	Cutting Tools	Stamp Tools	Pixelate
Filters	Displacement Tool	Paint Bucket/ Gradient	Sharpen
Patch Tool	Red Eye Tool	Level	Exposures

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**Curriculum Revision Committee**

**Mr. Salman Tariq**  
HOD CIT, Sr. Instructor,  
GCT, Raiwind Road,  
Lahore.

**Convener**

**Mr. Muhammad Ali Butt**  
Instructor,  
GTTI, Mughalpura,  
Lahore.

**Member**

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