GOVERNMENT OF THE PUNJAB TECHNICAL EDUCATION & VOCATIONAL TRAINING AUTHORITY



CURRICULUM FOR

DIPLOMA IN INFORMATION TECHNOLOGY

(1-Year Course) Revised June, 2015

CURRICULUM SECTION ACADEMICS DEPARTMENT

96-H, GULBERG-II, LAHORE Ph # 042-09263055-9, 99263064 gm.acad@tevta.gop.pk, manager.cur@tevta.gop.pk

Date: 30.6.2015

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TRAINING OBJECTIVES

The course aims on producing the trained man-power in the field of Information Technology to fulfill employment requirement of I.T. industry not only in the country but also abroad. The curriculum is divided into two academic semesters. The curriculum of Semester-I is designed to train the students to work as database developer and manage the offices. The curriculum of semester-II is designed to train the students in the field of E-commerce and interactive web development.

CURRICULUM SALIENT:

Name of Course:

Diploma in Information Technology

Entry Level:

Matric or equivalent

Duration:

One Year

The course consist of two semesters with 20 weeks of

teaching delivery duration each

Total Training Hours:

1600 Hours (800 hours per Semester)

Training Hours per week: 40 Hours/week

7 Hours per day (Friday 05 Hours)

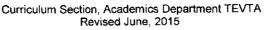
Training Methodology:

Practical 80%

Theory 20%

Medium of Training

Urdu / English





SKILL COMPETENCY DETAILS:

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

- Demonstrate different operating systems like DOS, Windows Desktop & Windows Server.
- Manipulate different business applications (MS-Word 2010, MS-Excel 2010 & MS-Power Point 2010).
- 3. Apply business communication & report writing skills.
- 4. Develop and manage database management system.
- 5. Prepare and analyze E-Commerce Projects.
- 6. Design, develop and manage interactive websites.
- 7. Predict financial accounting related issues in E-Commerce/Desktop applications and integrate them in different projects.

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KNOWLEDGE PROFICIENCY DETAILS:

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

- 1. Define EDP concept
- 2. Recognize and describe different operating systems (DOS, Windows Desktop & Windows Server).
- 3. Describe Internet, Word processing, Spread Sheet and Multimedia presentation.
- 4. Identify business communication issues inside/outside the organization.
- 5. State database Concepts and requirements with MS-Access.
- 6. Describe programming logic using flowchart and developing frontend using VB.Net
- 7. Identify payment processing solutions / merchant Accounts in E-Commerce.
- 8. Define system analysis and design.
- 9. Know web designing and development.
- 10. Recognize web programming with HTML and Java Script.
- 11. Recall Interactive Web Programming.
- 12. Know to host and upgrade the Websites.

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CURRICULUM DELIVERY STRUCTURE

1st SEMESTER

	Gurriculum Delivery	Make up Session	Revision	Co- Gurricular Activities	Final Test	Total
Z m m Z	1-20	21-22	23-24	25	26	26
	20	2	2	1	1	

2nd SEMESTER

W	Curriculum Delivery	Make up Session	Revision	Go- Gurricular Activities	Final Test	Total
EEK	1-20	21-22	23-24	25	26	26
	20	2	2	1	1	

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SCHEME OF STUDIES

Diploma in Information Technology (01 Year)

SEMESTER - 01

Sr. No	Main Topics	Theory Hrs.	Practical Hrs.	Total Hrs.
1	Introduction to Computer & Operating System (DOS, Windows Desktop & Server)	20	120	140
2	Business Application: MS-Word 2010	16	84	100
3	Business Application: MS-Excel 2010	14	86	100
4	Business Application: MS-Power Point 2010	10	60	70
5	Business Application: Internet	-	10	10
6	Database Management using MS-Access 2010	20	80	100
7	Programming Fundamentals, Flow Charts and Programming with VB. Net.	40	180	220
5	Functional English-I	20	20	40
6	Work Ethics-I	20	-	20
	120 6 1			

SEMESTER - 02

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1	Graphics Design & Animation	20	180	200
2	System Analysis & Design	20	20	40
3	Introduction to Computer Networking	20	120	140
4	Web Development.	40	240	280
5	Project	-	60	60
6	Functional English-II	20	20	40
7	Work Ethics-II	20	-	20
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DETAIL OF COURSE CONTENTS

Diploma in Information Technology (01 -- Year Course)

Semester-I

Sr. No.			Detail of Topic	Theory Hours	Practical Hours	Total Hrs.
1.			Introduction to Computer & Operating Systems	20	120	140
			(DOS, Windows Desktop & Windows Server)	7.0		
	1.1		INTRODUCTION TO DATA PROCESSING &	1		
		1.1.1.	COMPUTER History of Computer			
		1.1.2.	Definition of Computer			
		1.1.3.	Importance and Capabilities of Computers			
		1.1.4.	Data and its Types			
		1.1.5.	Difference Between Data and Information			
		1.1.6.	Data Processing Cycle			
	1.2		TYPES OF COMPUTERS	1		
		1.2.1.	Digital Computer			
		1.2.2.	Analog Computer			
		1.2.3.	Hybrid Computer			
	1.3		INTRODUCTION TO EDP SYSTEM	1		
		1.3.1.	Elements of an EDP System			
		1.3.2.	Hardware			
		1.3.3.	Software			
		1.3.4. 1.3.5.	User Program Procedures			
		1.3.5. 1.3.6.	Personnel			
		1.0.0.	1 digorinor			l i
	1.4		HARDWARE CONFIGURATOIN	1		
		1.4.1.	Input/Output Devices		į.	
		1.4.2.	Fixed Drives (HDD: IDE, SATA & SCSI)		<u> </u>	ł
		1.4.3.	Removable Drives (CD, DVD, Spare Drives)			
	1.5		CENTRAL PROCESSING UNIT (CPU)	1		
		1.5.1.	Arithmetic & Logic Unit (ALU)			
		1.5.2.	Control Unit (CU)			
	1.6		TYPES OF COMPUTERS STORAGE	1		
		1.6.1.	Bit, Nibble and Byte			
		1.6.2.	Memory Unit, Cache Memory, Virtual Memory			
		1.6.3.	Storage (Primary and Secondary)			
	1.7		INTRODUCTION TO COMPUTER SOFTWARE	1		
		1.7.1.	Hierarchy of Language			
		1.7.2.	Low Level Language			
		1.7.3.	High Level Language			
L	L	1.7.4.	Language Translators	<u>L. </u>	<u> </u>	<u> </u>

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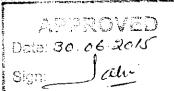
			·		
	1.7.5.	Definition of Operating System			ļ
1.8		DATA PROCESSING	1		
1.0	1.8.1.	Definition of Data Processing			
	1.8.2.	Data Processing Cycle	į		
		Concept of Multi Processing			ļ
		Concept of Multi-Tasking	İ		
	1.8.5.	Concept of Time Sharing			
1.9		OPERATING SYSTEM	1	6	
	1.9.1	Definition of Operating System			
	1.9.2	Types of Operating Systems			
1.10.		DEVICE DRIVERS (Input/Output Devices)	1	2	
	1.10.1	Definition of Drivers			
	1.10.2	How to install Drivers		!	
1.11.	,	PRACTICE FOR INSTALLING DRIVERS		4	:
1.12.		DISK OPERATING SYSTEM (DOS)	1	2	ļ
	1,12.1				Ì
		Characteristics of MS-DOS			
	1.12.3	Creating a file in DOS	,		
		Concept of Internal & External DOS Commands			
		Concept of Interface			
	1.12.6	Command Line Vs. GUI			
		PRACTIVE FOR CREATING AND SAVING DOS			
1.13.		<u>FILES</u>		2	
		PURPOSE, SYSNTAX AND USE OF MS-DOS			
1.14.	•	COMMANDS		4	
		CLS, TYPE, MD, COPY, DATE, DIR, CD, XCOPY,			
	1.14.1	TIME, EXIT			
	4.440	RD, MOVE, COPY CON, REN, DEL/ERASE,			
	1.14.2	DELTREE			
1.15.		PRACTIVE FOR USING DOS COMMANDS	:	2	
4.40		MINDOMO		<u> </u>	
1.16.		WINDOWS What is graphical Uper Interface (GIII)	1		
	1.16.1 1.16.2	What is graphical User Interface (GUI) Features of Windows Operating System		[
	1.16.2	History of Windows Operating System			
	1. 10.5	Thotally of Williams Operating Oystem			
1.17		WINDOWS DESKTOP (Icons)	1	6	
	1.17.1	Computer			
	1.17.2	Explorer			
	1.17.3				
	1.17.4	My Documents			
	1.17.5 1.17.6	Network Places Taskbar			
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	1.17.7	Start Button			
	1.17.8				
		Start Menu	,		
		Programs / Accessories / Applications			
		DOS Prompt			
		Documents			
	1.17.13				
		Search / Find Files & Folders]	
		Using Help Bus and Shut Down Ontions			
	1,17.10	Run and Shut Down Options Comparison of DOS and Windows Operating			
	1.17.17	Systems			
1.18.		PRACTICE FOLLOWING COMMANDS	1	6	
	1.18.1	Working with Windows		1	
		Opening an Icon			
		Maximizing and Restoring a Window			
		Opening a Task bar Button			
		Resizing and Moving Windows			
	1.18.6	Scrolling and Closing a Windows		1	
1.19.		PRACTICE FOR USING SAID OPTIONS		2	
1.20.		USING MY COMPUTER		2	
	1.20.1	Browsing through different drives			
1.21.		PRACTICE FOR USING SAID OPTIONS		2	
1.22.		PRACTICE FOLLOWING COMMANDS		2	
l	1.22.1	Selecting single or more Files & Folders	[
	1.22.2	Delete, Rename, Cut/Move, Paste, Copy, Drag &			
		Drop Options			
	1.22.3				
	1.22.4	Creating Shortcuts			
1.23.		WINDOWS EXPLORER	1 1	6	
	1.23.1	Using Explorer			
	1.23.2	Using Windows Explorer and Files/Folder Tree			
	1.22.3	Checking Files & Folders Properties			
1.24.		PRACTICE FOR USING ABOVE SAID OPTIONS		2	
1.25.		USING CONTROL PANEL		2	
	1.25.1	Opening Control Panel			
	1.25.2	Changing System Date, Time, Regional Settings			
	1.25.3	Customizing Mouse and Keyboard			
1.26.	•	PRACTICE FOR USING ABOVE SAID OPTIONS		2	
1.26. 1.27.		ADVANCED DISPLY SETTINGS	1	6	

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1. 1.	.27.2 .27.3 .27.4 .27.5	Screen Saver Resolution and System Colours System and Event Sound Settings Add New Hardware/Software		
1.28.		PRACTICE FOR USING ABOVE SAID OPTIONS		2
1 1 1 1 1	.29.2 .29.3 .29.4 .29.5 .29.6	ACCESSORIES System tools Scandisk Tool Maintenance Wizard Disk Clean up Task Scheduler Disk Defragmentation System Information System Restore	1	8
1.30.		PRACTICE FOR USING ABOVE SAID OPTIONS	į	2
1 1	.31.2 .31.3	CALCULATOR Opening and Operating Copying Calculator to Application Adding Office to Shortcuts to Desktop LAB: Practice for using above said options	3	1
	.32.1	MS-PAINT Drawing Rectangles, Ellipse, Circles, Squares, Paint Tools etc. LAB: Practice for using above said options	į	6
1		WORD PAD Word Process of the Documents Copy, Cut, Paste Operations LAB: Practice for using above said options	,	4
1	1.34.1 1.34.2 1.34.3 1.34.4	PROGRAM / APPLICATIONS How to run application through all programs menu Move text from on application to another Simultaneously opening two windows on desktop LAB: Practice for using above said options		6
1	1.35.1 1.35.2 1.35.3 1.35.4	WINDOWS SERVER 2012 Windows Server Introduction to cloud computing Basic services of Windows Server Installing Server Operating System and Data Center (Introduction)	1	6



	4 20		INICTALLING CEDVED ODEDATING SYSTEM &	2	25	
	1.36.		INSTALLING SERVER OPERATING SYSTEM &		25	
		1.36.1	DATA CENTER System Requirements			İ
		1.36.1	Installation / Update prerequisites			
		1.36.2	Installation repeate prerequisites		1	
		1.36.4	Rename Server			ļ
		1.36.4	Domain Joining			
		1.36.6	Windows Update Settings			
		1.36.6	Enable Disable Firewall			
		1.36.8	Enable Remote Desktop Management Enable/Disable Internet Explorer Enhances Security			1
		1.36.9	·		İ	
		1 26 10	Configuration Setup and Configure DNS for Windows Server 2012			1
	ļ	1.36.10	LAB: Practice for using above said options	'		
		1.36.11	BUSINESS APPLICATIONS (Microsoft Word			
2.			2010)	16	84	100
	2.1.		GETTING STARTED WITH WORD	2	12	
	2.1.	2.1.1	Identify the Elements of the Word		'~	
		2.1.1	Definition of Computer			
		2.1.2	Identify the Elements of the Word 2010 Interface			
		2.1.3	Identify New Documents Navigation Pane and			
		2.1.4	Search	ţ		
		2.1.5	Using Microsoft Word Help			
		2.1.6	Customizing Word 2010 ribbon			
		2.1.7	Customize quick Access Toolbar			
	2.2.		WORKING WITH DOCUMENTS	2	12	}
		2.2.1	Identify the Elements of the Word	1		
		2.2.2	Creating a New Document		\	ļ
		2.2.3	Create a Documents from a Template			
		2.2.4	Save and Reuse Template			
		2.2.5	Opening& Saving Recent Documents			
		2.2.6	Save Documents in PDF and XPS Format			
		2.2.7	Delete a Documents			
	1	2.2.8	Typing & Selecting Text	Ì		
		2.2.9	Selecting Default Font			
	1	2.2.10	Documents Protection			
	[2.2.11	spelling check and Correction			
	1	2.2.12	Toolbars			
	1	2.2.13	Change Documents Compatibility Mode			
		2.2.14	Document Sharing			
		2.2.15	Maintaining Documents Versions			
ļ	2.3.		EDITING DOCUMENTS	1	4	
		2.3.1	Undo, Redo			
		2.3.2	Copy, Cut/Move, Paste			
			FINDING Y REPLACING TEXT	1	4	
	2.4.			'	"	
		2.4.1	Find & Replace			
L	<u> </u>	2.4.2	Go to	1	<u> </u>	

					 	
	2.5.	2.5.4	INSERTING Cover Page Plank Page & Page Prock	1	12	
		2.5.1	Cover Page, Blank Page & Page Break Header & Footer			•
		2.5.2				
		2.5.3 2.5.4	Symbols Date & time			
		2.5.4	Page Number			
		2.5.6	Drop Cap			
		2.5.7	Hyper Link, Bookmark & Cross Reference			
		2.5.8	Picture, Clip Art & Shape			
		2.5.9	Watermark, Smart Art & Word Art			
			Charts, Equation & Symbol			
			Page Border			
		2.5.12	Page Orientation			
	2.6.		<u>FORMATTING</u>	2	10	
		2.6.1	Fonts, Character & Paragraph]	
		2.6.2	Border & Shading			
		2.6.3	Auto text			
		2.6.4	Bullets & Numbering		Ì	
		2.6.5	Tabs and Margins			
		2.6.6	Line Spacing			
i		2.6.7	View Documents and Layout			;
		2.6.8	Page Width			
	2.7.		TABLES	2	10	
		2.7.1	Insertion & Selection			
		2.7.2	Cells, Rows, Columns			
		2.7.3	Deleting Table, Rows & Columns	!		
		2.7.4	Merging & Splitting Cells			
:	2.8.		REPORTS WRITING AND RESEARCH RELATED COMMANDS	2	10	
		2.8.1	Bibliography			
		2.8.2	Headings			
		2.8.3	Table of Contents			
		2.8.4	Endnote & Footnote			
		2.8.5	Caption			
		2.8.6	Table of Figures			
		2.8.7	References			
		2.8.8	Mailing			
		2.8.9	Review Documents, Spelling & Grammar Check			
			Translate and Language Selection	1	!	1
		2.8.10				
		2.8.10 2.8.11	Commenting in Documents			
	2.9.	2.8.11	Commenting in Documents PRINTING	3	10	
	2.9.	2.8.11	Commenting in Documents PRINTING Printer Selection	3	10	
	2.9.	2.8.11	Commenting in Documents PRINTING	3	10	5.

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	2.9.5	Print both sides of Paper (Duplex Printing) in Words			
3.		BUSINESS APPLICATIONS (Microsoft EXCEL	14	86	100
		2010)	14	.00	100
3.1	•	GETTING STARTED WITH EXCEL 2010	2	5	
	3.1.1	An overview of Excel			
	3.1.2	Using Microsoft excel Help			
	3.1.3	Navigate and Select cells in excel			
	3.1.4	Select Data			
	3.1.5	Enter Data			
	3.1.6	Save a Workbook			Ì
			2	5	
3.2		MODIFYING A WORKSHEET			
	3.2.1	Move and Copy Data Between cells			
	3.2.2	Fill Cells with Series of Data			
	3.2.3	Edit Cell Data		Į į	
	3.2.4	Insert and Delete Cells, Columns, and Rows		1]
	3.2.5	Find, Replace, and Go To Cell data, Spell Check a			
	3.2.3	Worksheet			
3.3	.	PERFORMING CALCULATIONS	1	10	
0.0	3.3.1	Change Font size and Type			
	3.3.2	Add Borders and Color to cells			
	3.3.3	Change Column Width and Row height			
	3.3.4	Merge Cells	ļ		1
	3.3.5	Apply Number Formats			
	3.3.6	Create a Custom Number Format			
	3.3.7	Align Cell Contents	ļ		
	3.3.8	Find and Replace Formats			
	3.3.9	Apply and AutoFormat			
	3.3.10	Apply Styles			
3.4	1	DEVELOPING A BASIC WORKBOOK	1	5	
3.7	3.4.1	Format Worksheet Tabs	'		
	3.4.2				
	3.4.3	Insert and Delete Worksheets			
	3.4.4	Copy and Paste Worksheets		ļ	ļ
	3.4.5	Copy a Workbook			1
	J. 1.0	ank) a recurrent			
3.5	5 .	PRINTING WORKBOOK CONTENTS	1	8	
	3.5.1	Set a Print Title			
	3.5.2	Create a Header an a Footer			
	3.5.3	Set Page Margins			
	3.5.4	Change Page Orientation			
	3.5.5	Insert and Remove Page Break			
	3.5.6	Print a Range			
3.6	3 .	CUSTOMIZING LAYOUT	1	8	
	3.6.1	Split a Worksheet			
	3.6.2	•			
	3.6.3	Freeze and Unfreeze Rows and Columns			
	3.6.4	Hide and Unhide Worksheet			
					CIVITATION OF THE STREET

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3.7.		CALCULATING DATA WITH ADVANCED FORMULAE	1	8	
	3.7.1	Apply Cell and Range Names	ķ	ļ	
	3.7.2				}
		Use Special zed Functions			
	3.7.4	Analyze Data with Logical and Lookup Functions	ļ	Į	
3.8.		ORGANIZING WORKSHEETS AND TABLE DATA	1	8	
	3.8.1	Create and Modify Tables			
ļ	3.8.2	Format Tables			ļ
	3.8.3	Sort or Filter Worksheets or Table Data]
\	3.8.4	Use Function and calculate Data in a Table or			
	5.5.4	Worksheet			
3.9	_	PRESENTING DATA USING CHARTS	1	8	
0.0		Create Charts			
Ì		Modify Charts			ļ
	3.9.3	Format Charts			
3.10	1	<u>USING PIVOT TABLES, SLICERS & PIVOT</u>	1 1	7	
3.10		<u>CHARTS</u>	•		
		Create a PivotTable Report	1		!
		Filter Data Using Slicers			
	3.10.3	Analyze Data Using Pivot charts			
3.14	1.	INSERTING GRAPHIC OBJECTS	1	7	
	3.11.1				
	3.11.2	Draw and Modify Shapes			
		Illustrate Workflow Using Smart Art Graphics			
	3.11.4	Layer and Group Graphic Objects			
	^	CUSTOMIZING WORKBOOK & EXCEL	1	7	
3.1	۷.	ENVIRONMENT	'	,	
	3.12.1	Customize the Excel Environment	İ		
	3.12.2	Customize Workbooks			
	3.12.3	Manage Themes			
	3.12.4	Create and Use Template BUSINESS APPLICATIONS (Microsoft Powers)			
4.		Point 2010)	10	60	70
4.1		GETTING STARTED WITH POWER POINT 2010	1	2	
	4.1.1	Identify the Elements of the Power Point		ļ	
	4.1.2	2010 Interface			
	4.1.3	View a Presentation			
	4.1.4	Save a Presentation			
	4.1.5	User Microsoft Power Point Help			
4.2		CREATING BASIC PRESENTATION	1	4	
	4.2.1	Select a Presentation type			
	4.2.2	Enter Text	J	1	1

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	.2.3	Edit Text			
	.2.4				
		Add slide to a Presentation	!	į	
		Arrange Slides			
4.	.2.7	Work with Themes		!	
4.3.		FORMATTING TEXT ON SLIDES	1	2	
	.3.1	Apply character Styles			
4	.3.2	Format the text			
4.4.		ADDING GRAPHICAL OBJECT TO A	2	4	
4.4.		PRESENTATION	_		
	.4.1	Insert Images to Presentation	i		
	.4.2	Add Shapes			
4	.4.3	Adding Visual Style to Text in a Presentation			
4.5.		MODIFYING GRAPHICAL OBJECTS IN	2	4	
		PRESENTATION	_	1	
	1.5.1	Edit Graphical Objects on a Slide			
	1.5.2	Format Graphical Objects on a Slide			
	1.5.3	Group Graphical Objects on a Slide			
	1.5.4	Arrange Graphical Objects on a Slide			
4	1.5.5	Apply an animation Effects to a Graphical Objects			
4.6.		WORKING WITH TABLES	1	4	
1	1.6.1	Insert a Table			
4	1.6.2	Format Tables			
4	1.6.3	Import tables from other Microsoft Office			
		Applications			
4.7.		WORKING WITH CHARTS		5	
1	4.7.1	Insert Charts			
4	4.7.2	Modify Charts			
	4.7.3	Import Charts from other Microsoft Office			
-	7. 1 . U	Applications			
4.8.		PREPARING TO DELIVER A PRESENTATION	1	6	
1	4.8.1	Review the Content of a Presentation			
1	4.8.2	Divide a Presentation into sections			
	4.8.3	Add Transitions			
	4.8.4	Add Speaker Notes			
t .	4.8.5	Print Presentation		ļ	
4	4.8.6	Deliver a Presentation			
4.9.		CUSTOMIZING POWER POINT ENVIRONMENT	1	6	
4	4.9.1	Customizing he Power Point Interface			
	4.9.2	Set Option for Working with Power Point]	
4.10.		CUSTOMIZING A DESIGN TEMPLATE		6	
4	4.10.1	Set up slides master			
	4.10.2	Create custom Slide Layouts			

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		4.10.3	Add Header and Footers			
		4.10.4	Modify the Notes Master			l
		4.10.5	Modify Handout Master			
			·			
	4 4 4		ADDING SMART ART GRAPHICS TO A	1	6	
	4.11.		PRESENTATION	•		
		4.11.1	Insert Multimedia Elements	1	ì	
	1		Customize Slide Component Animation			
		4 11 3	Adding Hyperlink to Navigate Slides		ĺ	
			,			
	4.12.		CUSTOMIZING A SLIDE SHOW		6	
		4.12.1	Set up custom Slide Show			
	ļ		Anon Presentation			
			Create Presenter Independent Slide Show			
	ļ	4.12.4	Set up Slide Show to Repeat Automatically	i '		
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	1.1.5	Web Color Theory & Color Wheel	1		
	1.1.6	Transform & Free Transform		4	
	1.1.7	Use of Layers Techniques		4	
	1.1.8	Filters/Plug Ins		4	
	1.1.9	Use of Different Selection Types		3	
	1.1.10	Image Adjustment		4	
	1.1.11	Use of different image(.jpg, .gif & .png etc) file formats		5	
	1.1.12	Different Zoom Options	1	4	
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1.2		<u>Digital Illustration using Corel Draw X Series</u>	5	45	
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	4.4.2	JavaScript jQuery Events	1 1	8	
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	4.4.4	JavaScript jQuery with HTML	1 1	8	
	4.4.5	JavaScript jQuery with CSS	1 1	8	
	4.4.6	JavaScript jQuery with AJAX	1 1	8	
	4.4.7	JavaScript JSON Introduction	2	4	
	7.7.1	davagonpt doort madadation		•	
	4.5.	Word Press Content Management System	8	48	
_		<u>Project</u>	!	60	
5.	<u> </u>			00	\vdash
6.		Functional English	20	20	Ì
7.		Work Ethics	20		

sign: Jalum

LIST OF MACHINERY / EQUIPMENT / TOOLS

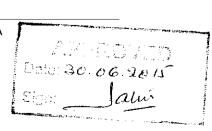
(For a class of 25 students)

	Name of Trade	(Name of Course)	
D	ploma in Information Technology	(01 Year)	
Sr.	Nomenclature of Tools &	Equipment Quantity Nos.	
1.	COMPUTER LAB: Servers (Windows and LINUX) Computers P-IV or above (With standard accessories) a. Laser / Dot Matrix prin	25	
	b. Scanner c. Internet connection	01 01	
2.	HARDWARE EQUIPMENTS: a. Digital/Analog Meters b. Tool Kit comprising the f Screw Driver Micro Screw D Nose Pliers Pliers L-key Wire Cutter		
	Tester c. Crimping Tool d. Cable Tester e. Air Blower f. Soldering Iron g. Soldering Sucker	01 01 01 01 01	
3.	SOFTWARES:(latest versions) a. MS Windows b. MS Office Suite c. MS Windows Server d. MS SQL Server e. MS Visual Studio .NET f. Adobe Photoshop g. Autodesk 3D Max		
4.	TEACHING AIDS: a. White board: b. Multimedia Projectors	01 01	

Date: 30.06.2015
Sign: Jalux

MINIMUM QUALIFICATION OF INSTRUCTOR / TEACHER

- 1. QUALIFICATION OF TEACHING STAFF:
 - M.Sc.(CS)/ MCS/MIT/BS (CS) / BCS
- 2. QUALIFICATION OF LAB. STAFF:
 - D.A.E (CIT/Electrical / Electronics) with MCSE/A+/DCHNE
 - Lab./Network Administrator: Intermediate with DCHNE/A+ Certifications / MCSE.



EMPLOYABILITY OF PASS-OUTS

This course carries much value and recognized in the private, semi government and government sector as well as abroad for jobs as:

- Assistant Programmer
- Web Developer
- Books Keeper

REFERENCE BOOKS

SEMESTER-I

Subject Name	Reference Books		
Introduction to Computer	The Concepts of Information Technology (5th		
& Operating System	Edition) by IT Series		
(DOS, Windows7 & Linux)	A Comprehensive Study of Operating Systems &		
	Networks (4th Ed) by IT Series		
	Microsoft Windows 7 Desktop support and		
	Administration by Darril Gibson		
	4. The Complete Reference (Linux) by Richard		
	Peterson.		
Business Applications &	E-Commerce 2011 by Kenneth C. Laudon, Carol		
E-commerce	Guercio Traver Prentice Hall, 2010 - Business &		
	Economics		
	The E-Commerce book: building the E-empire by		
	Seffano Korper, Junaita Ellis		
Database Management	Fundamentals of Database Systems by Ramiz		
using MS-Access 2010	Elmasri and Shamkant Navathe		
	A Fundamental Study of Database Management		
	Systems (2nd Ed) by IT Series		
	3. Access 20xx For Dummies by Laurie Ulrich Fuller,		
	Ken Cook, John Kaufeld Publisher Wiley		
Programming	An Introduction to Programming Using Visual Basic		
Fundamentals, Flow	.NET by David I. Schneider		
Charts and Programming	Vb .Net by Camron Wakefield, Henk Evert Sonder		
with VB. Net.			

SEMESTER-II

Subject Name	Reference Books
Graphics Design and	Photoshop CS Bible by Deke McClelland
Animation	2. Flash Professional CS5 Bible by Todd Perkins
	3. Adobe Dreamweaver CS5 Bible by Joseph Lowery
System Analysis & Design	1. System analysis and Design by Kendall and Kendall
	2. System analysis and Design by Elias M. Awad
	3. Applying UML and Patterns: An Introduction to
	Object-Oriented Analysis and Design and the Unified
	Process by Craig Larman
Web Development using	1. JavaScript & HTML 4.0 Users Resource, William H.
PHP & MySql	Murray & Chris H. Pappas, Prentice Hall, 2000
	2. SAMS JavaScript in 24 Hours, Second Edition,
į	Michael Moncur, SAMS, 2000.
	3. Creative HTML Design 2, Lynda Weinman, William
	Weinman, Lynda.com, 2001.
	4. PHP essentials by Julie C. Melonl
	5. PHP 5 / MYSQL programming for the absolute
	beginners by Andy Harris
	6. PHP & MYSQL for dynamic websites by Larry Ullman

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Introduction to Computer Networking	Data Communications and Networking by Behrouz A. Forouzan Data and Computer Communication by William Stallings Computer Networks by Daugles, F. Computer Stallings
	Computer Networks by Douglas. E. Comer

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