Syllabus on Vocational Education and Training Course (VTC)

Syllabus on Vocational l		Education and Training Course (VTC)								
Paper Title		: Desktop Publishing - I								
CODE		: VTC: 243.2								
Number of Credits		: 4								
Semester		: I	II							
No. of The	ory Hours	: (One (1 l	nour)						
Per Week	•									
No. of Pract	tical Hours	:]	Three (3	3 Hours)						
per Week			`	,						
Outline of the	e Paper:									
Type of	Units in	the Hours		Credits	Total	Distribution of Marks (as per OC-8)				
Course	VTC				Marks	7.0				
Desktop								End-Sen		
Publishing - I	Unit-I The	0.1411	15			Theory 25	Practical	Theory	Practical	
-1	(25 Marks)	ory	15			25				
		IV	90	4	100		15		60	
		(75								
	Marks)									
Marks Distr	ribution	: I	nternal	Assessn	nent: 40					
		: I	Externa	l Assessr	nent: 60)				
Course Obj	ectives		1. To	o descri	be the	fundame	ental con	cepts of	computer	
		hardware and software.								
		2. To explain the proficiency in working with Graphical								
		User Interface (GUI) based operating systems.								
		3. To use word processing, spreadsheets, and presentation								
		efficiently.								
		4. To Recognize the basic functions and features of word								
		processing, spreadsheets, and presentation software.								
		5. To efficiently produce, edit, format, and manage								
			do	ocuments	, spread	sheets, ar	nd presenta	ations.	C	
					_		_		advanced	
					_	•	nin each O			
Course Learning										
Outcome								vith prof	iciency and	
		utilise the advanced formatting tools, incorporate tables,								
				nages, ar			C		•	
		2. specify master document collaboration, use reviewing								
		features and mail merge.								
			3. develop spreadsheets for data analysis, calculation, and							
		data visualisation using charts and graphs.						,		
		4. apply formulas and functions to perform calculations							calculations	
									ch as pivot	
				ables and		L	J		1	
						and pro	fessional	presenta	tions using	
				nultimedi				1	-	
							ely with s	slides. la	youts, and	
							•		•	
		themes and employ animations & transitions to enhance presentation delivery.								
Unit I: (The	Computer fundamentals:									
15 Hours	9 1		Computer, block diagram of a computer, functions of the							
15 110015			- 00	mputer,	DIOCK U	agrain 0	i a compu	cci, ruiic	nons of the	

Different Units, Input and Output device, Memory hierarchy (Registers, Cache Memory, Primary Memory, Secondary Memories), Concepts of Hardware and Software, Types of software system software, application software, utility software, Open source, freeware and proprietary software. compiler, Programming language, interpreter translator. Concept of Computing, Units of Memory (Bits, Bytes), Operating System, types of Operating System, Functions of Operating System. Networking Concept (LAN, MAN, WAN), Internet. **UNIT-II:** (Practical) **Operating Systems:** Graphical 30 Hours User Interface, **Basics** of (MS-WINDOWS/LINUX), Desk Top, Task Bar, Start Up Menu Working with programs and icons-Adding, removing, starting and quitting programs and icons. Working with files and folders-creating, deleting, opening, finding, copying, moving and renaming files and folders. Control Panel, setting, My Computer, Recycle bin, Desktop & its terminology, Set up using Control panel, accessories, File Management. **Word Processor:** Overview of Word Processing, parts, types of menus, opening, creating, saving, cut, copy, paste, paste especial, print and print preview, Find and Replace. Character and paragraph formatting. spelling and grammar, Auto Correct, Numbering, symbols, equations, page number, footnote, end note, Header/Footer, Clip Art, Smart Art. Border and shading, Table handling, Hyperlink, Bookmark, Cross reference, Mail merge, Label & Envelope and important shortcut keys. **UNIT-III:** (Practical) **Spreadsheet** – Overview, Opening, creating, saving 30 Hours worksheet and workbook. Copy & paste, insert rows/columns, cell, range, fill series, print and print preview. Formatting Cells; Selecting Cells, Entering Text and Numeric Data into the Cells, Applying Fonts and Background Colour, Aligning Data, Merging Cells, Text Wrapping, Number Formatting – Text, Percentage, Currency, Dates. **Formulas** and **Functions** Performing _ Mathematical Operations using Formula, Applying Formulas using Cell Names and Range, Performing Calculation using basic Numerical and Mathematical Functions. If and nested if function, Logical Functions-AND, OR, NOT. Filters, Grouping and Charts- Sort, filter, advance filter,

graphs, charts, conditional formatting rules, data

	validation, Introduction to Pivot Tables and Pivot Charts.
UNIT-IV: (Practical) 30 Hours	• Presentation: Overview, slides, designing slides, background design, auto content wizard, themes and styles. Animations, slide transition and build effects, action buttons and rehearse timing and slideshow. Sound effects, charts, graphs, smart art, media clips, objects, tables, slide view, master Slide.
Assignments	 Customize the desktop background, add/remove icons, and organize the taskbar. Demonstrate the use of the Start Menu to open programs and access settings. Create, delete, open, find, copy, move, and rename files and folders using both the graphical interface and command line (where applicable). Open a new document, type text, use cut, copy, paste, and paste special functions to paste in a different folder Create a text document and save it under different names using save as use character and paragraph formatting, apply bullets and numbering, check spelling and grammar In the above created document insert symbols, equations, page numbers, footnotes, and endnotes In a document create and format tables, insert hyperlinks, bookmarks, and cross references Open, create, and save worksheets and workbooks. Copy and paste data, insert and delete rows/columns, and apply print and print preview settings. Format cells by selecting cells, entering text and numeric data, applying fonts and background colors, aligning data, merging cells, and text wrapping. Use number formatting for text, percentage, currency, and dates Perform basic mathematical operations using formulas, apply formulas using cell names and ranges, and use basic numerical and mathematical functions. Implement IF and nested IF functions along with logical functions Sort and filter data, use advanced filter options, create graphs and charts, and apply conditional formatting rules. Explore data validation techniques and create pivot tables and pivot charts. Create a new presentation, design slides, apply background designs, use auto content wizard, and apply themes and styles. Add animations to slide elements, use slide transitions, and build effects. Include action buttons and rehearse timing for the slideshow.

Suggested Readings	 Curtis, F. L. Joan , Microsoft Office Step by Step (Office 2021 and Microsoft 365), Pearson Education ; 1st edition, 2022. Gurdy, L. F. Ellen and L. Mary , OpenOffice.org For Dummies, John Wiley & Sons publication, 2004 Kevin, W. Essential Office 365 Third Edition: The Illustrated Guide to Using Microsoft Office (Computer Essentials)", Elluminet Press, 2018. Matt , V. Microsoft Office 365:A Complete Guide to Master Word, Excel and PowerPoint 365 for Beginners and Pro, Kindle Edition, 2021. Sinha P. and P. K. Sinha, Computer Fundamentals, (Eight Edition) New Delhi: BPB Publications, 2004. Steinberg, J. Open Office Basic: An Introduction, Createspace Independent Publication, 2012.
Requirements	Name of the Tools and Equipment with Specification CPU: 32/64 Bit, 7th Generation or higher, i3 or latest processor, Speed: 3 GHz or Higher. RAM:- 8 GB or higher, 1TB HDD/SDD, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (as available in the market). Or All in one PC (As per above configuration) Licensed Operating System and Antivirus compatible with trade related software Wi-Fi RouterWith wireless connectivity Broadband connection with min.2 mbps speed/Optical Fibre Software Requirement (Latest Version) MS Office 2010 or the latest version available at the time of procurement Antivirus or Total security for – clients/workstations in profile Adobe Creative Suite Corel Graphic Suite Regional Language Software
Qualified Instructors	 Instructors with experience in Desktop Publishing and teaching. Certifications or relevant qualifications in Desktop Publishing

Paper Title		: Desktop Publishing -II							
CODE			TC: 26		5				
Number of Credits		: 4							
Semester		: I'	V						
No. of Theo	ry Hours	:0	ne (1 h	our)					
Per Week			`	,					
No. of	Practical	: T	hree (3	Hours)					
Hours per V									
Outline of the			T		I	T = 4 · 4			0.000
Type of Course	Units in VTC	the	Hours	Credits	Total Marks	Distribution of Marks (as per OC-8)			
Desktop	VIC				Walks	In-Semester		End-Semester	
Publishing-						Theory	Practical	Theory	Practical
II	Unit-I The	ory	15	4		25			
	(25 Marks) Unit-II to	TX7	90		100		15		60
	Theory	(75	90				15		00
	Marks)	(
Marks Distrib	ution	-		ssessment:					
Course Obia	ativas	: Ex		ssessment		osios of d	loolston mil	hliabina	
Course Obje	ecuves						lesktop pul	_	
		2. Introduction to computer networks, internet							
			3. Installation and usage of printer and scanner.4. Learn to use photoshop and PageMaker.						
		Learn to use photosnop and ragelylaker.							
Course	Learning	At the end of the course students are able to"							
Outcome	1. perform desktop publishing								
		2. identify networking concepts and applications							
		3. make use of mails, attachments and social networking							
		4. install and use printers and scanners in the network							
1		5. describe and work with Photoshop and PageMaker6. apply it to text, images, graphics and animated gifs							
			6. app	ly it to te	ext, imag	ges, grapl	nics and ar	nimated g	gifs
II:4 I. (TVI)									
Unit I: (Theory)						Top Pub			
15 Hours		• Merits and Demerits. Typography, Types(Fonts) Type							
		sizes, Different families(Style).							
		• Point system and other systems of measuring, Casting off,							
		Proofreading and its marks, House style, Composing Process							
		ProcessIntroduction of various methods of composing Computer						Computer	
									1. Various
				-	-		lculations.	-	i. • aii0us
			Р	or billos,	. arrous	rupor ou		•	
UNIT-II: (Practical)			• Intr	oduction	to Co	omputer	Networks	s: Instal	l network
30 Hours		• Introduction to Computer Networks: Install network printer. Use of file and printer sharing in peer-to-peer							
			-	nection.		1		C F	1
		Browse the Internet for information (use at least 3 popular)						t 3 popular	
		browsers).							
		Practise to create and use e-mail for communication with							
			atta	chment,	priority	setting, a	ddress bo	ok.	

	 Communicate with text, video chatting and social networking sites.
	 Use an online dictionary, translation software, storage space, share files with e-mail links. Scanner, How to scan on a Windows computer, Different settings of scanner. Scan the file and save to the desired destination on the computer. Load photo paper into the main input tray. Print the photo, Page setup. Different settings of printer.
UNIT-III: (Practical) 30 Hours	 Getting Acquainted with Photoshop, Basic Image Manipulation, Colour Basic Painting Tools, Brush Settings, Making Selections, Filling and stroking, Layers, Advanced Layers, Text, Drawing, Using Channels and Masking, Manipulating images, Getting to know the work area, Using Adobe Bridge, Basic Photo Corrections, Retouching and Repairing, Working with selections, Layer Basics, Masks and channels, Correcting and enhancing digital photographs, Topographic design, Vector drawing techniques, Advanced Layer techniques, Vector Composting, Creating Links within an image, Creating rollover web visuals, Animating GIF images for the web, Producing and printing consistent colour.
UNIT-IV: (Practical) 30 Hours	 Getting Started with PageMaker, PageMaker Interface, Creating a New Document, Managing Document Layer, Creating & Editing Text, Working with Edit Story, Managing Text as an Object, Working with Text and Graphics, Using Graphics, Applying Colours to Graphics, Framing Graphics, Cropping and masking Graphics, Working with Layers, Working with Master pages, Working with Plug-ins, Using Text Wrap, Using Advanced Features, Creating a PDF Document in PageMaker, Working with Data Merger, Using Scripts, Using Object Linking and Embedding Colour Separation Capabilities, Printing.
Suggested Practical Assignments:	 Network Printer Installation: Install a network printer on a Windows computer. Configure printer settings and test print a document. File and Printer Sharing: Set up file sharing between two computers on a peer-to-peer network.

• Enable printer sharing on a network.

3. **Internet Browsing:**

- Browse the Internet using three different browsers (e.g., Chrome, Firefox, Edge).
- Compare the features and performance of each browser.

4. Email Communication:

- Create an email account.
- Send emails with attachments, set email priorities, and manage the address book.
- Use email to send links for shared files and practice organizing emails into folders

5. Basic Image Manipulation in Photoshop:

- Open an image and perform basic manipulations (crop, resize, rotate).
- Use basic painting tools and brush settings to modify the image.

6. Selections and Layers in Photoshop:

- Create and modify selections using different selection tools.
- Work with layers: create, arrange, and apply basic transformations.

7. Text and Drawing in Photoshop:

- Add and format text in an image.
- Use drawing tools to create shapes and lines.

8. Channels and Masking in Photoshop:

• Use channels and masks to isolate parts of an image and apply adjustments.

9. Photo Corrections in Photoshop:

- Perform basic photo corrections (brightness, contrast, color balance).
- Retouch and repair parts of an image using tools like the healing brush and clone stamp.

10. Advanced Techniques in Photoshop:

- Use vector drawing techniques and advanced layer techniques (e.g., layer styles, blending modes).
- Create web visuals, animate GIFs, and produce consistent color prints.

11. Text and Graphics Management in Pagemaker:

- Create and edit text blocks using the Edit Story feature.
- Import and manipulate graphics, apply colors, and use text wrapping.

12. Layers and Master Pages in Pagemaker:

- Work with layers and master pages to manage document structure.
- Use advanced features like plug-ins and scripts.

13. PDF Creation and Data Merger in Pagemaker:

	0
	• Create a PDF document from a PageMaker file.
	• Use the Data Merger feature to merge external
	data into the document.
	14. Object Linking and Embedding in Pagemaker:
	• Use OLE to embed and link objects between
	applications.
	 Practice color separation and printing settings for
	final output.
Suggested Readings	1. Bangia, R. Learning Desktop Publishing, Khanna
	Publishers, 2nd Edition, 2016
	2. Behera, S. R. Smart DTO Course, B. K. Publications Pvt
	Ltd, 2nd Edition, 2019 3. C. M. Connally, The Complete
	reference PageMaker V.7, Osborne/McGraw-Hill, 2002
	3. Faulkner, A. C. Chavez, Adobe Photoshop CC Classroom
	in a Book, First Edition, Pearson Education, 2018
	4. Jain, S. and M. Geeta, Desktop Publishing Training
	Guide, BPB Publication, 2015
	5. Mittal, A. and A. Rana, Mastering Pc Hardware and
	Networking, 1st Edition, Khanna Publishers, 2023
	6. Singh, V. P. DTP Course Book, 4th Revised Edition,
	Asian Books
D	Name of the Tools and Equipment with Specification
Requirements	Traine of the Loois and Equipment with Specification
Requirements	• CPU: 32/64 Bit, 7th Generation or higher, i3 or latest
Requirements	
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Requirements	 CPU: 32/64 Bit, 7th Generation or higher, i3 or latest processor, Speed: 3 GHz or Higher. RAM:- 8 GB or higher, 1TB HDD/SDD, Wi-Fi Enabled.
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Requirements	 CPU: 32/64 Bit, 7th Generation or higher, i3 or latest processor, Speed: 3 GHz or Higher. RAM:- 8 GB or higher, 1TB HDD/SDD, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB
Requirements	 CPU: 32/64 Bit, 7th Generation or higher, i3 or latest processor, Speed: 3 GHz or Higher. RAM:- 8 GB or higher, 1TB HDD/SDD, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (as available in the market). Or
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Donor Title		· Dockton Publishing -III								
Paper Title CODE		: Desktop Publishing -III								
Number of Credits		: VTC: 363.2								
Semester Semester		. * 4								
	:VI									
No. of Theory Hours Per Week		: One (1 hour)								
	ractical	. Three (2 House)								
Hours per V		: Three (3 Hours)								
Outline of the										
Type of		n the Hours Credits Total Distribution of Marks (as per OC-8)								
Course	VTC				Marks					
Desktop						In-Seme		End-Sen		
Publishing -III	Unit-I	Theory	15			Theory 25	Practical	Theory	Practical	
	(25 Mar)		13			23				
	Unit-II		90	4	100		15		60	
	Theory	(75								
Marles	Marks)	. Trades	anal Ass		- 40					
Marks Distribution				sessment						
		: External Assessment: 60								
Course Obje	ecuves	1. Introduction of Cloud storage and it types 2. Understanding and working with Coral Prov.								
		2. Understanding and working with Corel Draw3. Understanding different kinds of publishing contents and types								
		of Printing Technology.								
		4. Understanding of Image Editing and Optimization								
		5. Understanding of Creating Effective Layouts.								
Course Lo	earning	At the	end of	the cours	e studen	its are ab	le to:			
Outcome Dearning		1. explain the process of cloud computing concepts and ability to								
			-	-			_	-	es on major	
				platforms	_				3	
		2. create and manage storage resources like bucket or blob								
			storage	e						
		3. identify the workspace, toolbars, and panels								
		4. make use of skills from Illustrator to CorelDRAW								
		5. utilise internet toolbar, setting up web pages, exporting files,								
			and cr	eating bu	ttons wi	th rollov	er effects.			
TI OF TOTAL			<u> </u>			-	****	~-	-	
Unit I: (The	ory)	•				computin	ig.What ai	re Cloud	servers and	
15 Hours			• -	of cloud s				,	1 0	
								_	ogle. Create	
				_	_		amazon / a	_	-	
		•		_	server &	IIS serv	er, configu	ire apach	e server and	
			IIS server							
			• Perform Domain registration, c panel management. Perform							
			Domain registration of any domain name							
		 Configure domain name to hosting accounts. 								

	Host your web pages.
UNIT-II: (Practical) 30 Hours	 Getting started with Corel Draw, Introduction to Corel Draw, Features of Corel Draw, CorelDraw Interface, Tool Box, Moving from Adobe Illustrator to Corel Draw, Common Tasks, Drawing and Colouring, Selecting Objects, Creating Basic Shapes, Reshaping Objects, Organizing objects, Applying colour fills and Outlines Mastering with Text, Text Tool Artistic and paragraph text, Formatting Text, Embedding Objects into text, Wrapping Text around Object, Linking Text to Objects, Applying Effects, Power of Blends Distortion, Contour Effects, Envelopes, Lens effects, Transparency, Creating Depth Effects, Power Clips, Working with Bitmap Commands, Working with Bitmaps, Editing Bitmaps, Applying effects on Bitmaps, Printing Corel Draw- Web resources, Internet Toolbar, Setting your webpage, Exporting files, Creating buttons with Rollover effects
UNIT-III: (Practical) 30 Hours	 Requirement of publishing content Solve requirement related issues by contacting key people in Publishing, Pre-production, and Production teams. Summaries the consequences of publishing incorrect versions of content. Determine, if you have the correct versions of all content for publications. Demonstrate methods of establishing publication requirements. Perform recommended techniques of establishing requirements in Requirement of publishing content Categories content that requires publishing. Classify all requirements of the publication content. Different kinds of publishing contents, Types of Printing technology. (Letterpress, Offset lithography, Screen printing, Gravure printing, Flexography printing) Digital printing Technology Discuss issues, if any, concerning requirements. Summaries the consequences of publishing incorrect versions of content. Desktop Publishing Operator standard templates and formats
UNIT-IV: (Practical) 30 Hours	 Publishing contents in Bilingual software Use standard templates and tools while converting content into draft publications. Practice escalating design-related issues to the supervisor. Solve design-related issues by incorporating the requester's/user's feedback/inputs. Design and format content as per established requirements. Modify designed and formatted content as per client's review. Convert designed, formatted, and validated content, into draft

publication, after incorporating feedback from the Quality Assurance team (Prepress department) Demonstrate standard methods for publishing content. Produce publication outputs in specific formats required by production teams. Combine the latest publications to update the organisation's database. Comply with the industrial standards while publishing content. 1. Use Coreldraw to create basic shapes (e.g., rectangles, circles), Suggested **Practical** select objects, and apply color fills and outlines. 2. Create and reshape objects using tools such as shape, node, **Assignments:** and interactive tools. Organize objects by aligning, grouping, and layering. 3. Use the Text Tool to create artistic and paragraph text, format the text, and embed objects into text. Wrap text around objects and link text to objects. 4. Apply effects such as blends, distortions, contours, envelopes, lens effects, and transparency to objects. 5. Import and edit bitmaps, apply effects to bitmaps, and use bitmap editing tools within Corel Draw. 6. Use depth effects and power clips to create intricate designs. Practice embedding objects within other objects. 7. Set up print settings, prepare documents for printing, and explore different output formats. 8. Create a basic LaTeX document using the article class. Include sections, subsections, and different text formatting (bold, italic, lists). Save and compile the document. 9. Create a document that includes various mathematical expressions, equations, and align environments. Include examples of fractions, integrals, summations, and matrices. 10. Create a LaTeX document that includes multiple figures and tables. Use the graphicx package to insert images and the tabular environment to create tables. Format the tables to include borders, captions, and labels. 11. Create a research paper layout with title page, abstract, sections, and references. Customize headers and footers, and format the document according to a specific citation style (e.g., APA or IEEE). Use BibTeX for managing references. 12. Design a presentation using the Beamer class. Include title slides, section slides, bullet points, and graphics. Apply different themes and color schemes to the presentation **Suggested** 1. Bangia, R. Learning Desktop Publishing, Khanna Publishing 2. Behera, S. R. Smart DTP Course, BK **Readings** 3. Jain, S. and M Geetha, Desktop Publishing, BPB Publications 4. Kumar L. S. and M Ilayaraja, Desktop publishing, Notion Press 5. Kumar L. S. and M. Ilayaraja, Desktop Publishing, 2019 6. Mishra, P. Cloud Computing with AWS: Everything You Need to Know to be an AWS Cloud Practitioner, 2023

	7. Singh, V. P "Simplified DTP Course Book, Asian Publishers8. Singh, V. P. DTP Course Book, Asian Publishers
Requirements	 Name of the Tools and Equipment with Specification CPU: 32/64 Bit, 7th Generation or higher, i3 or latest processor, Speed: 3 GHz or Higher. RAM:- 8 GB or higher, 1TB HDD/SDD, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (as available in the market). Or All in one PC (As per above configuration) Licensed Operating System and Antivirus compatible with trade related software Wi-Fi Router With wireless connectivity Broadband connection with min.2 mbps speed/Optical Fibre Any other item as required
Qualified Instructors	 Instructors with experience in Desktop Publishing and teaching. Certifications or relevant qualifications in Desktop Publishing