and the second second	Part A	A Introduction		
	3.3	Level - Beginner	Session: 2022-23	
Program: Under Graduat	e Course			
The Control of Control		V1-COS-IT		
Course Code				
Course Title	Information Technology			
Course Type	Vocational			
Pre-requisite (if any)	No Pre-requisite			
Course Learning outcomes (CLO)	• Get an understanding of the basic components, use and application of			
Officomes (CLC)	 different Information Technology systems. Understand the impact of current and new technologies on methods of working in the outside world Function as discerning students in an increasingly digital society Access various tools and applications for learning and skill development opportunities Practice safe, legal and ethical means of using Information Technology 			
Expected Job Role / Career opportunities	Job Role – Back Office Coordinator, Computer Operator, Office Assistant, In Lab Technician, Desktop Administrator, School/College Technical Officer ICT Helpdesk Technician:			
	Career Opportunities - Some typical employers -			
	 All private a Showrooms, Clinics, Hos Online Facil Educational Any organis Self-employ 	and govt. offices , Printing Press spitals lity Center Institutions sation that uses computer syst yment/freelance work is ofter experience.	ems en possible for individuals wit	
Credit Value		2 (Th) + 2 (Pr)	- - -	



	Part B- Content of the Course Total No. of Lectures + Practical (in hours per week): L-1 Hr / P-1 Lab Hr		
	Total No. of Lectures/ Practical: L-30hrs/P-30hrs		
	Topics	No. of	
1odule		Hours 05	
I	Information Technology –Introduction to IT, Objectives, Evolution, Purpose (Connecting, Creating, Interacting), Usefulness, Applications, Types of IT, Creating textual, visual and audio-video communication. IT application areas in everyday life - E-Commerce, E-governance, Banking, Agriculture, Education, Medicine, Defense, Transport, Publicity, Manufacturing, Agriculture, Education, Medicine, Defense, Typert Systems, Retail.		
	Finance, Travel & Leisure, Libraries, Expert Systems, Retail. Advantages of IT in everyday life, its Disadvantages. IT Terminology - The Internet and its uses and services, WWW, Web Browser, Search Engine, Website, Portal, Internet Service Provider (ISP), structure of a web address,		
II	URL, Hyperlink, Cloud, Computers, Data Storage and Peripherals: Types and classification of computers, Block diagram of computer. Inside a computer - SMPS, Motherboard, Ports and Interfaces, expansion cards, ribbon cables, memory chips, different processors and clock speed. Input Devices: Characteristics and uses of keyboard, numeric keypad, pointing devices, remote control, joystick/driving wheel, touch screen, scanner, barcode reader, camera, microphone, sensors, light pen. Output Devices: Characteristics and uses of monitors, touch screen, multimedia	04	
III	projector, different types of printers, plotter, 3Dprinters, spearer, 3Dprinters, 3Dprinters, Spearer, 3Dprinters, 3Dprinte	. 04	
	Software: system software, Application Software, Timware, Translator, Utility Programs, Types of system Software: Operating Systems, Language Translator, Utility Programs, Communication software, Antivirus Software.	10	
IV	Mobile App Software, Social Media Software. Instant Media Software, Blogs. Free Open Source Software (FOSS). Application software uses - Word Processing, Spreadsheet, Presentation, Database, Graphics, Designing, Recording sound and video, newsletters, posters, websites, multimedia presentations, audio, video, media streaming and E-publications, blog, forum, wiki, social networking. Using office tools - any of MS-Office/ Libre Office, Cloud based services- Google Workplace – working with Mail, Google Docs, Sheets, Forms, Slides, Calendar, Meet, Drive, Zoho Mail, WPS Office, Office Suite, Polaris		
	Utility Software - PDF Creator, File Archiving and Storage, File Converter Collaboration tools –Docs, Chat, forum, wiki, online groups, audio/video conferencing social bookmarking. Tools for social networking and Web Conferencing.	Ξ,	



compression.

Practical Hardware Lab 1. Prepare a list of various computer peripherals. (e.g. CPU, Mother Board, RAM, Hard 30 Drive, Optical Drive, Solid State Drive, Monitor, Keyboard, Mouse, Speaker, Web (2 Hrs Each) cam, Printer, Scanner, microphone, speakers, modem, projector etc). 2. Identify common ports, associated cables, and their connectors. 3. Observe various connectors, ports back and front side of the computer. Write their purpose and specifications. (e.g. Power, PS/2 keyboard and mouse, Serial and parallel, USB, VGA, LAN, Audio & microphone, Firewire, HDMI, games, SATA etc.) MS Office/ Libre Office 1. Create a document and apply different formatting options. 2. Design a Greeting Card using word art and smart arts for different festivals. 3. Create a document and insert header and footer, page title, borders and shading etc. 4. Create a document, set the margins, orientation, size, Column, Water mark, page, color and page borders etc. 5. Insert a table into the document. Prepare a mark sheet of your class subjects. 6. Prepare an invitation letter in MS-WORD and apply mail-merge 7. Apply the creating, editing, saving, printing securing & protecting operations to an excel spreadsheets. 8. Prepare a bar chart & pie chart for analysis of five year results of your institute. 9. Work on the following exercise on a workbook: 10. Copy an existing Sheet 11. Rename the old Sheet 12. Insert a new Sheet into an existing Workbook 13. Delete the renamed Sheet. 14. Prepare an Attendance sheet of 10 students for any 6 Subjects of your syllabus. Calculate their total attendance, total percentage of attendance of each student & average of attendance, if formulae for calculating grade based on percentage. 15. Create a worksheet on Students list of any 4 faculties and perform following database functions on it. a. Sort data by Name b. Filter data by Class c. Subtotal of no. of students by Class. 16. Apply themes and layouts to power point slides and insert pictures. Graphics, shapes, and tables into presentation. 17. In power point slide make use of adding transitions with sound effect and animation & Working with master Slides. File/ Folder Management 1. Create folder(s) and file(s) using different ways. 2. Apply different types of copy/cut/paste options. 3. Managing the desktop icons, screen resolution and backgrounds. 4. Making shortcuts to your files/folders on desktop. 5. Compress a folder and mail it to your own self. 6. Extract a zipped file to a folder in E drive. 7. Convert doc to pdf and pdf to jpg.



Collaborative online working

- 1. Create a mail-id for yourself in any one of the facilities available online.
- 2. Host a meeting on zoom/Google meet, share the screen/pdf/documents, use board/annotations.
- 3. Host a meeting on Google meet, and record it on zoom.
- 4. Create a Google sheet, share it with 6 more participants and work simultaneously.
- 5. Create a Google doc, apply different types of formatting.
- 6. Create a Google form for youth festival to input their name, class, contact number and event participated and save the data to a Google sheet.
- 7. Create a Google slide to make certificate for different names in the above program using autocrat.

Project/ Field trip:



Part C-Learning Resources

Text Books, Reference Books, Other resources

Suggested Readings:

- Sinha P.K., Sinha Priti, "Computer Fundamentals", BPB.
- Alexis Leon & Mathews Leon "A Beginners Guide to Computers", Vikas Publishing House Pvt.
- Mohan P., Fundamentals of Computers, Himalaya Publishing House.
- Sukhwinder Singh, Gaurav Kumar, Kanwalpreet, "Information Technology Skill Development", Twenty first Century Publications.
- Working in Microsoft Office, Ron Mansfield, TMH Publishing Company Ltd.
- Learning Computer Fundamentals, MS Office and Internet & Web Tech., Dinesh Maidasani, Firewall Media.
- G Suite for Dummies, Paul mcfedries, Wiley.

Suggested equivalent online courses: e-reading:

- http://egyankosh.ac.in//handle/123456789/9489
- https://workspace.google.com/intl/en_in/training/
- http://www.itdesk.info/handbook_using_computer_managing_files.pdf
- https://www.coursera.org/courses?query=microsoft%20excel
- https://www.coursera.org/projects/googlecloud-google-drive-getting-started-5bus3
- https://www.tutorialspoint.com/computer_fundamentals/computer_fundamentals_tutorial.pdf