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Jul-25	UNIT 1- Computer Organization Part A	Introduction to Fundamentals of Computer and its use Characteristics of computer Components of computer Block diagram of computer Processes of task execution steps of process execution function of various components of computer and CPU identify various components of computer appreciate function and use of I/O devices learn about various storage devices used in computer	identify and enlist various applications of computer     illustrate various components of computer under different blocks     illustrate functions of various components of computer     illustrate various types of I/O devices     identify and find out the application of each of the I/O Devices
	UNIT 1- Computer Organization Part B	various memory units ofstorage     introduction to Operating System and its need     functions of operating System     types of operating system     types of operating system     introduction to common troubleshooting/ problems     introduction to common troubleshooting/ problems     common troubleshooting steps     troubleshooting hardware problems like display, keyboard, mouse etc.     troubleshooting printer problems     understanding printer IP address     understanding printer IP address     understanding various printer settings like fast/ slow printing     sound troubleshooting     understanding speaker settingslike volume etc.     troubleshooting sobutware problems     troubleshooting software problems     troubleshooting networking problems     learn about problems in network fly lead, network card	identify different types of OS in computers/mobile phones identify the different in features of various operating systems identifying different kinds of problems in the system and its peripheral devices setting up a printer selecting a printer selecting a printer changing of the printer changing printer settings how to forcefully restart a computer or stop a task demonstration of problems in fly lead, network card and possiblesolutions
	Employability Module UNIT 1- Communication Skills	Methods of communication     Communication styles- assertive, aggressive, passive-aggressive, submissive, etc.     Writing skills to the following: Sentence, Phrase, Kinds of Sentences, Parts of Sentence,     Parts of Speech, Articles, Construction of a Paragraph	Writing pros and cons of written, werbal and non-verbal communication     Listing do's and don'ts for avoiding common body language mistakes     Observing and sharing communication styles of friends, teachers and family members and adapting the best practices     Role plays on communication styles.     Demonstration and practice of writing sentences and paragraphs on topics related to the subject
	UNIT 1- Computer Organization Part C	Disk Space management     Disk Cleanup     Managing Recycle Bin     learning about disk defragmentation     learn to remove unused programs     learn to disable unused program services     restart the system     learn to use command prompt to search for a file.	illustration to view the disk storage     to apply Disk Cleanup utilities to enhance performance of the system     to identify, view and manage Recycle Bin     illustration and hands onto remove unused programs     illustration and hands on to disable/enable program services     restart the computer     to search different files using various options and wildcard characters
Aug-25	UNIT 2- Networking & Internet Part A	Introduction Need and benefits of networking Components of a network: sender, receive, message, channel, Transmission Medium (wired and wireless) Telephone Network standard (technology used in each generation) Working Devices (RJ45 connector, Modem, Repeater, Hub, Switch, Bridge, Gateway, Routers) Network Topology (Bus, Star, Ring, Tree, Mesh) Types of Networking (LAN, MAN, WAN, PAN, VAN)	Illustrate various networks and its benefits     Identify the transmission medium, devices, network topology, type of networking in computer lab     Setting up hotspot
	Employability Module UNIT 2- Self Management Skills	Describe the importance of dressing appropriately, looking decent and positive body language     Describe the term grooming     Prepare a personal grooming checklist     Describe the techniques of self-exploration     Describe the important factors that influence in team building     Describe the important factors that influence in team building     Describe factors influencing team work     Meaning and importance of time management – setting and prioritizing goals, creating a schedule, making lists of tasks, balancing work and leisure, using different optimization tools to break large tasks into smaller tasks.	Demonstration of impressive appearance and groomed personality Demonstration of the ability to self- explore Group discussion on qualities of a good team Group discussion on strategies that are adopted for team building and team work Game on time management Checklist reparation To-do-list preparation
		• Introduction and use of Internet	• Analyze the Bandwidth,
Sep-25	UNIT 2- Networking & Internet Part B	Digital Literacy Terminology (Channels, Bandwidth (HERTZ, KHZ), ISP) Internet Devices: Repeater, Hub, Switch, Gateway, Bridge, Router Data Transfer Rate (bps, Kbps, KBps, Mbps, KBps, Cbps, GBPS) Protocols (TCP/IP, FTP, HTTP, SMTP, POP3, PPP, UDP) Network safety concerns: (Digital Pootprints, Threats, Virus, Worm, Trojan Horse, Spam, Malware, DoS Attacks, Eavesdropping, Adware, Spyware, Snooping) Networking Security Measures (Antivirus, Firewall, Login ids and Password) Cyber Crime (Phishing, Pharming, Spoofing, Cyber Bullying, Hacking, Cracking, Identity Theft, Cyber Stalking, Cyber Troiling, Cyber Safety (Netiquettes, IT Act, Cyber Laws)	identify Internet devices and their significance     to check/view Data transfer rate in computer lab/devices     Find out the threats encountered and the security measures used in computer lab and mobile phones
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Oct-25	UNIT 3- Office Automation  Employability Module  UNIT 3- ICT Skills	Introduction work with Word processingapplications like OpenOffice, Introduction to word processing, Software packages for word processing, Opening and exiting the word processor. Creating a document Editing text • Wrapping and aligning the text • Font size, type and face. Header and Footer • Auto correct • Numbering and builet • Creating table Find and replace • Page numbering • Printing document • Saving a document in various formats.	List the available wordprocessing applications. Demonstration and practice of the following: Listing the features of word processing Listing the software packages for word processing Opening and exit the word processor Creating a document Demonstration and practicing the following: Editing the text Word wrapping and alignment Changing font type, size and face Inserting header and footer Removing header and footer Using autocorrect option Insert page numbers and bullet
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	UNIT 3- Office Automation Tools Part B	introduction to presentation software     start OpenOffice Impress     overview of OpenOffice     study of various tabs of OpenOffice     understand various views of     presentation, animations, transitions, header, footer etc.	Students will be able to work with presentation software

F	UNIT 4- RDBMS Part A	Database and its purpose Components of a table Relational Database Model Terminology (Relation, Tuple, Attribute, Cardinality) Keys (Primary, Candidate, Alternate, Foreign) Introduction To MYSQL Classification of MYSQL commands (DDL, DML) Data Types in MYSQL (char, varchar, decimal, int, date, time) Create database Create table View structure of a table	Installation of MYSQL Simple calculations in MYSQL CREATE DATABASE USE CREATE TABLE DESCRIBE SHOW TABLES ALTER TABLE DROP TABLE
Nov-25		Add constraints in table Modify structure Show all tables created in a database Delete structure	
	Employability Module UNIT 4- Entrepreneurial Skills	Values in general and entrepreneurial values Entrepreneurial value orientation with respect to innovativeness, independence, outstanding performance and respect for work Attitudes in general and entrepreneurial attitudes Using imagination/ Intuition Tendency to take moderate risk Enjoying freedom of expression and action Looking for economic opportunities Belleving that we can change the environment Analyzing situation and planning action Involving in activity	Listing of entrepreneurial values by the students. Group work on identification of entrepreneurial values and their roles after listing or reading 2-3 stories of successful entrepreneur. Exhibiting entrepreneurial values in Ice breaking, rapport building, group work and home assignments. Preparing a list of factors that influence attitude in general and entrepreneurial attitude Demonstrating and identifying own entrepreneurial attitudes during the following micro lab activities like thematic appreciation test Preparing a short write-up on "who am !" Take up a product and suggest how its features can be improved Group activity for suggesting brand names, names of enterprises, etc.
	UNIT 4- RDBMS Part B	Add rows to a table Viewing content of a table Display selected data depending on specific condition Display data in a order modify the data stored in a table delete contents of a table	INSERT INTO     UPDATE     DELETE     Using WHERE, ORDER BY, DISTINCT, LIKE, BETWEEN, IN
	UNIT 5- Fundamentals to Java Programming Part A	Components of IDE     Understand and change Properties and methods of Components like j Button, j Label, j TextField, j Textarea, j Radiobutton, j Checkbox, j Password Field, j ListBox, j Combo Box	Create a project Create a FrameForm container Add a button component on FrameForm and change properties like text, font, foreground etc using properties window Add other container controls like JTextField , JTextarea, JRadiobutton, JCheckbox, JPasswordFieldJLstBox, JComboBox and change their properties
	Employability Module UNIT 5- Green Skills	Main sectors of green economy- E-waste management, green transportation, renewal energy, green construction, water management     Policy initiatives for greening economy in India     Stakeholders in green economy     Role of government and private agencies in greening cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries	Preparing a poster on any one of the sectors of green economy Writing a two-page essay on important initiatives taken in India for promoting green economy Preparing posters on green Sectors/Areas: cities, buildings, tourism, industry, transport, renewable energy, waste management, agriculture, water, forests and fisheries
Jan-26	UNIT 5- Fundamentals to Java Programming Part B	Introduction to Object Oriented Programming To understand various data types (primitive) and purpose of each data type To understand the need and usage of variables To understand usage of operators (assignment, arithmetic, relational, logical, bitwise) To understand how to attach a code with components like jButton,jLabel, jTextField and create a simple application on JFrame To understand the use of various components like jTextarea, jRadiobutton, jCheckbox, jPasswordField, jListBox,jComboBox, jTable, JOptionPane, jPanel To understand when to use selection statements (if, if else and switch case)	Display message Using jlabel and jtextField Join two text entries and display them Write code to close the application Using Joption Pane display a message "welcome to INFORMATION TECHNOLOGY" Perform simple arithmetic calculationusing operators and display the result Write the code to find simple interest Write code to perform an operation based on the criteria input by the user in a checkbox or radio button change the background colour of jbutton based on the colour selected from the jListBox //ComboBox accept marks in 5 subjects and find out the total, percentage. Also displaygrade depending on the total marks obtained. Enter a character and find out it is vowel or consonant

Mar-26