

**ANNUAL CURRICULUM PLAN
2020 – 2021**

**COMPUTER SCIENCE
CLASS VIII**

Vision

- ***To acquaint students with Computer Networking and its utility in their daily lives.***
- ***To develop the intellectual, creative, technical and thinking capabilities through the use of computer technology.***
- ***To inculcate among students the zeal to handle large amount of data with efficiency and speed.***
- ***To make students aware about the Computer Ethics and Internet Safety.***
- ***To make students understand the benefits and drawbacks of using technology in their day to day life.***

TERM PERIOD - APRIL TO SEPTEMBER

Chapter	Learning Topics	Transaction Strategies/ Innovative Pedagogy	Learning Outcomes	Core Skills/Art Integration
Ch-1: Computer Networking	Creating Computer Network, Components of Computer Network, Network Topology, Types of Network, Networking Hardware, Types of Networks, Protocol, Internet Terms, Cloud Computing	Stating real life examples of networking like road n/w, telephone n/w and explaining the concept of computer networking & its need. They will be divided into groups to state examples of LAN, MAN, WAN. The concept of Cloud Computing will also be explained with help of real-life examples. Group discussion Context based learning Demonstration via Screen Share option of Google meet Youtube video: https://youtu.be/v_PvLKbeOhs PPT on "Types of Network"	Students will understand the concept of Networking in regard to computing, its importance & components. They will be able to differentiate b/w LAN, MAN, WAN and the concept of cloud computing & Internet terms will also be made clear to them. They will learn digital citizenship skills and the way to interact with others.	Core Skills: Intellectual skills, Analytical thinking, Observation skills Art Integration: Draw figures of different topologies on a Chart paper with different colors highlighting the main points Interdisciplinary Linkages: Art & Drawing
Ch-2: MS Access	Introduction, Database, DBMS & RDBMS, Creating Access database, Data types, Creating Tables, Entering data in a table, Modify a table, Searching for data	Students will be asked to create their class list on a paper and then will be explained the concept of MS Access and its usage i.e. when data is too much, we need a database. They will be made aware about creation of access databases using templates. Demonstration via Screen Share option of Google meet Learning by doing Youtube video: https://youtu.be/pbtoCktIX1Y Assessing their understanding of the concept by asking them to present their screen and perform what has been asked	Students will get to know about the term MS Access & its relevance. They will learn how to create a blank database & table using templates. They will learn to manage things in correct order which will help them to make right decisions in life.	Core Skills: Problem solving, Decision making, Creative thinking Art Integration: Prepare a database "Students" using features of MS Access having following fields: Roll No: Autonumber Name: text Class: text Age: number Set Roll No as Primary Key Enter 5 records. Save the table

Ch-3: More on MS Access	Introduction, Query, Creating Queries, Using Query window, Form, Modify a Form, Reports, Formatting Reports	Stating some examples of queries, forms and reports as used in their daily life then relating it with MS Access and making them aware of the formatting options available in MS Access Discussion Method Learning by doing Youtube video: https://youtu.be/YWjQcra9dOc Demonstration via Screen Share option of Google meet	Students will get familiar with the concept of Queries and its utility in real life. Various formatting options will also be explained to them. Their Intellectual and Creative powers will be enhanced as they will create forms and queries on their own.	Core Skills: Analytical skills, Intellectual skills, Creative skills Art Integration: Design a Report to display names and marks of 5 subjects
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TERM PERIOD - OCTOBER TO FEBRUARY

Ch-4: Introduction to HTML	Introduction, Features of HTML, Working of HTML, Structure of HTML Document, Basics of HTML Document, Superscript and Subscript tags, Creating & Saving HTML Document	Students will get to know about the term HTML and its importance. They will learn how to create a page using HTML Tags & elements. Demonstration via Screen Share option of Google meet Activity based learning Discussion method PPT on "HTML and its Importance" Assessing their understanding of the concept by asking them to present their screen and perform what has been asked	Students will be able to understand the concept of HTML & Structure of HTML document. They also get familiar HTML tags, elements. They will inculcate the value of doing things themselves.	Core Skills: Creative thinking, Problem solving, Observation skills Art Integration: Prepare a HTML document containing various tags and elements
Ch-5: Creating Webpage using HTML	Headers, Adding Paragraphs, formatting text, Inserting Images, creating tables in HTML, Tables formatting, Creating Lists	Activating their previous knowledge, they will be made aware of different types of lists: OL, UL, DL as well as various formatting options and will be creating a document using any one of these lists. Demonstration via Screen Share option of Google meet Activity based learning Youtube video: https://youtu.be/4ZunanytE88 Learning by doing	Students will be made aware of the different lists available in HTML with help of examples and will get to know about Nesting of lists. They will also learn about Inserting images and creating tables in HTML document.	Core Skills: Creative thinking, Problem solving, Observation skills Art Integration: Design a webpage using appropriate tags and formatting features of HTML
Ch-8: E-Commerce	Introduction, Modes of E-Commerce, Advantages of E-Commerce, Systems of payments in E-Commerce, Technologies, Social networking sites, Online Shopping	Dividing the class in 4 groups and asking them name some of the common e-commerce sites which they are aware about. Discussing the usage of social networking sites in their daily lives with help of examples. Context based learning Demonstration via Screen Share option of Google meet Discussion Method	Students will be made aware of e-commerce and its importance in their daily lives. They will learn about systems of payments in e-commerce. Their observation skills will be enhanced as they will deal with various features of e-commerce.	Core Skills: Creative thinking, Problem solving, Observation skills Art Integration: Prepare a list of online shopping sites from where their parents have purchased something and also state its advantage
Ch-10: Computer Ethics and Internet Safety	Computer ethics, Internet Privacy, Software Piracy, Computer Crime, Computer Security, Internet safety rules, Cyberbullying	Stating some examples to clear the concept of using Locks for protection in day to day life and relating it with Computer privacy and usage of passwords for safety purposes. Computer crime & cyberbullying will also be made clear to them with relevant examples. Context based learning Discussion Method Adaptive Learning	Students will learn about Computer ethics & Internet Privacy and their relevance. They will also be made familiar with Computer crime & security as well as Internet security rules. A sense of Responsibility will be inculcated among them as they will learn to protect their data from any misuse.	Core Skills: Intellectual skills, Creative thinking, Decision making Art Integration: Create a Poster using different colors on the topic "Computer Security" Interdisciplinary Linkages: Art & Drawing