CHOITHRAM SCHOOL, MANIK BAGH, INDORE
ANNUAL CURRICULUM PLAN SESSION 2017 – 2018

CLASS: VIII
SUBJECT: Computer

Month & Working Days	Theme/ Sub-theme	Learning Objectives		Activities &Resources	Expected Learning Outcomes	Assessment
		Subject Specific (Content Based)	**Behavioural (Application based)**			
June	Networking Concepts **Sub-theme:** Advantages of Networking, Network Components, Types of Network, Network Architecture, Network Security Network Card, Networking Cable, Hubs and Switches, LAN, MAN and WAN, Client-Server Network, Peer-to-Peer Network, Login and Rights Security	**1)** To make students aware about the meaning of the term Networking. 2) To enable students to differentiate between types of Networking. 3) To make students learn about Network components. 4) To make students learn about the features of types of Network. 5) To make students understand about Network Architecture. 6) To make students understand	1) To enable students to understand the importance and significance of Networking in daily life. 2) To make students able to access a file from a shared drive. 3) To enable students to protect data from access by unauthorized persons.	• Showing video on networking components. • Quizzing related to topic. • Written class test on networking concepts according to Bloom's Taxonomy. • PowerPoint presentation on "Advantages of Networking ".	Student will learn to differentiate between types of Networking, about Network components, the features of types of Network, Network Architecture, and Network Security. They will be able to understand the importance and significance of Networking in daily life, to access a file from a shared drive, to protect data from access by unauthorized persons.	Students of the class will be divided in two teams. Teams will be asked to prepare Quizzing Questions and ask to opponents in Quiz contest. Students will be asked to create PowerPoint presentation on "Advantages of Networking ". Level of Quizzing Questions asked and performance shown in answering the Quizzing Questions.

		Network Security.				

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July	Log on to Access **Sub-theme:** Database, Components of Database, Features of MS Access, Blank Database, Table Templates Field, Record, File, DBMS, Creating a blank database	1) To make students able to understand terms like Database, Field, Record, DBMS. 2) To make students aware about features of MS Access. 3) To enable students to create a blank database, create tables using templates.	1) To enable students to organize, manage and access data. 2) To enable students to differentiate between Flat file database and Relational Database.	• Creating a database of Class mates. • Creating a database of Family Members	Students will learn about terms like Database, Field, Record, and DBMS. They will aware about features of MS Access. They will learn to create a blank database, create tables using templates	Students will be asked to create database of classmates with the field names as(Scholar number, student name, class , section, bloodgroup, age, gender, contact number, address, father's name ,mother's name, occupation of parents) On the basis of logics and concepts used for creating database.

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August	Working with tables and working with Queries **Sub-theme:** Data Types, Design and Datasheet view, Primary Key, Sorting Creating a table in Design view, Setting a Primary Key, Entering Data in Datasheet View, Alphabetical Sorting, Increasing and decreasing order sorting	1) To enable students to use different data types to store different types of data in the database. 2) To make students able to create a table in design view and to maintain data entries in datasheet view. 3) To enable students to set primary key. 4) To enable students to add, delete and move a field. 5) Learning about deletion, insertion, modification and updating in database by using queries.	1) To enable students to organize, manage and access data. 2) To enable students to arrange data in ascending or descending order. 3) To enable students to differentiate between Flat file database and Relational Database. 4) To enable students to prevent duplication of data by using primary key.	• Employee Database for an organization • Patients Database. • Database on 5 Favorite books (Price, Author's name, Publisher's name, Name of the book, Type of book) • Create Class and Subject Teacher's Database	Students will learn to use different data types to store different types of data in the database. They will be able to create a table in design view and to maintain data entries in datasheet view. They will be able to set primary key.	Students will be asked to create database of Employees with the field names as(Employee Id, Employee name, Designation, Department , blood group, age, gender, contact number, address, Salary) Class and Subject Teacher's Database(Teacher Id, Name, Gender, Subject, Classes taught and hobbies) Database on 5 Favorite books (Price, Author's name, Publisher's name, Name of the book, Type of book) On the basis of logics and concepts used for creating database.

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September	Surfing Internet **Sub-theme:** World wide web, Hypertext, HTML, Multimedia. Real Time Communication, Blog Designing	1) To make students aware about terms like World Wide Web and Multimedia and Real Time communication. 2) To learn the download and installation process of SKYPE. 3) To learn how to create blog and post ideas and thoughts to share with the world.	1) To enable them to use resources beneficially. 2) To make students to use Internet wisely to gather information related to any topic. 3) To make them able to identify Ethical content on Blogs.	• Blog Designing on review of any 2 books read. • Blog designing on the importance of education in the society. • Demonstration of video conferencing using SKYPE.	Students will learn about terms like World Wide Web and Multimedia and Real Time communication. They will be able to download and install SKYPE. They will be able to create blog and post ideas and thoughts to share with the world.	Students will be asked to create blog on review of any 2 books read, the importance of education in the society. Uploading data on blog and managing it effectively under security majors of Cyber Security.

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October	Visual Basic 2008 **Sub-theme:** Event driven Programming, Visual basic and its modes, VB IDE, Form	1) To make students understand about the modes of VB programming.	1) To make students how to identify and correct mistakes, errors while writing programs. 2)To develop among	• Program to add two numbers. • Calculator designing Program. • Student's Registration Form	Students will learn about the modes of VB programming. They will learn how to design VB based application by adding controls and properties for various events.	Students will be asked to write Program to add two numbers and code for Calculator designing Program Student will be asked to design Student's Registration

	Window, Properties window ,Tool box, Code window, Developing a VB application, Commonly used Controls	2) To make students understand how to design VB based application by adding controls and properties for various events. 3) To enable them to write the code for an event.	students systematic and step by step approach. 3) To enable students to compare two values using Relational operators.		They will be able to write the code for an event.	Form Level of concepts used for creation of application based on Event driven Programming.

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November	More on Visual Basic 2008 **Sub-theme:** Variables, operators, Control Statements Commonly used Controls. Adding images and shapes in a form. Arithmetic Operators, Relational Operator, Logical Operator, If..Then..Else statement, Radio Button, Check Box Control, Select Case	1) To make students how to display an image and shapes in a form. 2) To make them understand how to create an application using various operators i.e. Arithmetic Operators, Relational Operator, Logical Operator.	1)To enable the students for making decision based on the result of comparisons 2) To enable the students to make the different choice and compare it with the given option. 3) To enable students to deal with situations based on conditions in real life.	• application to accept marks of subjects and display percentage, total marks and average marks • Program to input an integer and display the next 10 integers.	Students will learn how to display an image and shapes in a form. They will understand how to create an application using various operators i.e. Arithmetic Operators, Relational Operator, Logical Operator. They will be able to make decision based on the result of comparisons with the help of Select Case Statement, DO while Statement, For Next…Statement.	Students will be asked to develop application to accept marks of subjects and display percentage, total marks and average marks. Program to input an integer and display the next 10 integers. Level of concepts used for creation of application based on Event driven Programming.

	Statement, DO while Statement, For Next…Statement.	3)To enable the students for making decision based on the result of comparisons with the help of Select Case Statement, DO while Statement, For Next…Statement.				

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December	Understanding HTML **Sub-theme:** Describing HTML tags, Attributes, Types of elements, changing the appearance of text by changing the font, size, text color and background	1) To make students understand structure of an HTML document. 2) To make them learn the two types of elements: Container and empty tags. 3) To make them learn how to create and view an HTML document. 4)To learn the usage of heading	1) To understand design aspects of WebPages. Fonts, colors usage etc. 2) To make them aware about the process of designing a website. 3) To understand the content, flow, layout of WebPages.	To create webpage on hobbies, favorite sports, famous people	Students will learn the structure of an HTML document. They will learn about two types of elements: Container and empty tags. They will be able to create and view an HTML document. They will be able to use heading ,paragraph , BR, font style tags, background color tag	Students will be asked to create webpage on hobbies, favorite sports, famous people Effective use Of HTML tags for web page creation.

		,paragraph , BR, font style tags, background color tag				

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January	Using List and Creating Tables in HTML **Sub-theme:** Unordered List, attributes and its types, Linking web pages, Inserting Images. Marquee text, Creating tables and its tags,<TR>,<TD>,<TH> tags	1) To learn the Insertion of images in webpage. 2) To learn different types of lists and their usage. 3) To learn the linking of two WebPages. 4) To learn to create table.	1) To understand the usage of appropriate images to enhance the richness of the webpage being created. 2) To understand the content, flow, layout of WebPages.	• Write an HTML document to print name of your friends in an unordered format. • Create an unordered list of your hobbies. • Create a homepage for your school website	Students will learn to insert images in webpage. They will learn about different types of lists and their usage. They will be able to learn the linking of two WebPages. They will be able to create table.	Students will be asked to print name of your friends in an unordered format. Create an unordered list of your hobbies. Create a homepage for your school website Effective use Of HTML tags for web page creation.

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February	C programming **Sub-theme:** C character set, C Tokens (Identifiers, Keywords, Constants, Operators,), Structure of	1) To learn the C character set, C Tokens (Identifiers, Keywords, Constants, Operators,), Structure of a C Program (include	1) To make students how to identify and correct mistakes, errors while writing programs.	**Mathematical Modeling:** • Programs to calculate area and perimeter of 2-D figures. • Program to add 2 numbers, program to find the difference, product of 2numbers.	Students will learn the C character set, C Tokens They will learn Structure of a C Program They will learn about Header files, Concept of Data types	Students will be asked to write Programs to calculate area and perimeter of 2-D figures. Program to add 2 numbers, program to find

	a C Program (include files, main function), Header files – stdio.h, conio.h, printf, scanf; Concept of Data types; Built-in Data types: char, int, float and double; Constants: Integer Constants, Character constants - \n, \t, \b), Floating Point Constants, Access modifier; Variables of built-in-data types, Declaration/Initialization of variables, Assignment statement,	files, main function) 2) To learn about Header files – stdio.h, conio.h, printf, scanf; Concept of Data types; Built-in Data types: char, int, float and double; Constants: Integer Constants, Character constants - \n, \t, \b), Floating Point Constants, Access modifier; 3) To learn Variables of built-in-data types, Declaration/Initialization of variables, Assignment statement,	2) To develop among students systematic and step by step approach. 3) To enable students to compare two values using Relational operators.		They will learn about Declaration/Initialization of variables, Assignment statement,	the difference, product of 2numbers. On the basis of logics applied and level of concepts used in programming

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March	C programming **Sub-theme:** Operators: Arithmetic operators (-,+,*,/,%),Assignment operator(=),C++ shorthands (+=,-=,*=,/=,%=) Unary operator (-), Increment(++) and Decrement (--)	1) To learn the Operators: Arithmetic operators, Assignment operator 2) To learn about Logical operators 3) To learn if else, Nested if, switch..case..default, Nested switch..case, break statement	1) To develop among students systematic and step by step approach. 2) To enable students to compare two values using Relational operators. 3) To enable students to deal with situations	Programs to print prime numbers, even numbers, odd numbers from 1-100	Students will learn the Operators: Arithmetic operators, Assignment operator, Logical operators They will learn if else, Nested if, switch..case..default, Nested switch..case, break statement	Students will be asked to write Programs to print prime numbers, even numbers, odd numbers from 1-100 On the basis of logics applied and level of concepts used in programming

	Operators, Relation operator (>,>=,<=,=,!=), Logical operators (!,&&,II),Conditional operator; Precedence of Operators; Automatic type conversionin expressions, Type casting; **Conditional statements:** if else, Nested if, switch..case..default, Nestedswitch..case, break statement (to be used in switch..case only);		based on conditions in real life.			