

BHARTIYA VIDYA MANDIR SENIOR SECONDARY SCHOOL

SECTOR-39, CHANDIGARH ROAD, LUDHIANA

SYLLABUS OF CLASS VIII

BOOK : Click Code Connect		SUBJECT : COMPUTER SCIENCE		SESSION : 2024-25
Month	Unit/Chapter/Topic	Learning Objectives	Resources/Art-Integrated Pedagogy Tools Used/ E-Resources	Learning Outcomes/ Skills learnt by Students
APRIL	Interactive Session	Students will be able to know about syllabus	Discussion method in classroom	Students will get syllabus awareness
	Chapter 1	To stimulate learning among students	Storyboarding Method	Imaginative skill learnt by students.
	Topic	Students will be able to identify different types of Number Systems like Binary, Decimal, Octal, Hexadecimal	Discussion method on 'Application Areas of different Number Systems'	Students will be able to identify different types of Number Systems
	Topic	To make students understand the conversion process of different Number Systems	Demonstration Method	Students will be able to do the conversion from one Number System to another
	Topic	To make students understand some of well-known encoding schemes such as ASCII, Unicode	Lecture Method	Students will identify various standard encoding schemes
MAY	Chapter 2	To check the knowledge level of students	Previous Knowledge Testing Method	Students will desire to learn new things
	Topic	To make students learn about various elements of a chart	Practical in Lab	Students will be able to list various elements of a chart
	Topic	To make students able to use about various types of charts	Practical in Lab	Students will be able to categorize types of charts
MAY	Topic	To make students able to create a chart along with various chart elements	Practical in Lab	Students will be able to create a chart along with various chart elements
	Topic	To make students aware about how to add several elements in charts	Practical in Lab	Students will learn about adding Axis Titles, adding Chart Title, adding Data Labels, Adding Data Table, Adding Legend in a chart
	Topic	To make students able to change chart styles	Practical in Lab	Students will be able to create a change and use various styling features on charts
	Topic	To make students learn about how to use Sparklines in Charts	Practical in Lab	Students will acquire skill of adding Sparkline feature of Excel
	Lab Activity	To encourage hand-on practise among students	Lab Activity 1 and 2 given on Page no. 31 of Textbook	Students will be able to use Charts in Excel 2016 by own
JUNE	SUMMER VACATIONS			

JULY	Chapter 3	To check the knowledge level of students	Previous Knowledge Testing Method	Students will desire to learn new things
	Topic	To encourage students to come up with different views about meaning of 'Sorting'	Brainstorming Techniques	Students will understand the fact 'Sorting' and its importance in MS-Excel
	Topic	To make students able to use of sorting features in Excel Sheet	Practical exercise 3.1 given in Textbook	Students will able to sort data on column basis
	Topic		Practical exercise 3.2 in Textbook	
	Topic	To make students able to use of filtering feature in Excel Sheet	Practical exercise 3.7 given in Textbook	Students will learn filtering feature in Excel Sheet
	Topic	To make students aware about how to apply custom filter in sheet	Practical exercise 3.11 given in Textbook	Students will learn how to apply custom filter in sheet
	Topic	To make students aware about how to apply conditional formatting in sheet	Practical exercise 3.14, 3.15, 3.16, 3.17 given in Textbook	Students will learn how to apply conditional formatting in sheet
	Lab Activity	To encourage hand-on practise among students	Lab Activity 1 and 2 given on Page no. 46 of Textbook	Students will be able to do work in Excel by own
JULY	Chapter 4	To check the knowledge level of students	Previous Knowledge Testing Method	Students will desire to learn new things
	Topic	To give basic information about 'HTML' and its purpose	Lecture Method	Students will understand the use of HTML to create web pages
	Topic	To make students aware about how to add several elements of a HTML code	Lecture Method	Students will be able to understand the basic structure of an HTML document
	Topic	To make students aware about using various attributes of tags in HTML code		
	Topic	To make students able to comprehend how to structure content on a webpage	Demonstration Method - showing how to create a basic HTML structure with <html>, <head> and <body> tags	Students will learn to create, save and view webpage on browser
	Topic	To make students learn how to create, save an HTML code in editor	Practical exercise 4.2 given in Textbook	
	Topic	To make students able to view an HTML page on browser	Practical exercise 4.4 given in Textbook	
	Topic	To make students able to insert line break using the element	Practical exercise 4.6 given in Textbook	
	Topic	To make students able to create simple paragraphs using the <p> element	Practical exercise 4.8 given in Textbook	
	Topic	To make students understand usage of <h1>, <h2>, <h3>, <h4>, <h5> heading elements	Practical exercise 4.10 given in Textbook	
	Topic	To make students able to create horizontal line in web content using the <hr> element	Practical exercise 4.12 given in Textbook	
	Topic	To make students able to format elements in HTML code	Practical exercise 4.14 given in Textbook	

JULY	Topic	To make students able to write 'comments' in HTML code	Practical exercise 4.16 given in Textbook	Students will learn to include comments in their HTML code
	Topic	To make students know how to do Nesting of elements in HTML code		Students will learn 'Nesting of elements' in their HTML code
	Lab Activity	To encourage hand-on practise among students	Lab Activity 1 and 2 given on Page no. 64 of Textbook	Students will be able to create HTML webpage by own
AUGUST	Chapter 5	To check the knowledge level of students	Previous Knowledge Testing Method	Students will desire to learn new things
	Topic	To students aware about importance of CSS and its syntax	Lecture Method	Students will acquire skills to apply 'Style rules - Selector, Property, Value' to HTML elements.
	Topic	To discuss the various ways to include CSS in HTML document	Practical exercise given on Page no. 70 of textbook	Students will gain a comprehensive understanding of how to effectively include CSS in HTML documents and apply styling to create visually appealing and accessible web pages.
	Topic	To make students understand the importance of color, font, text, image properties in web design	Practical exercise given on Page no. 72, 73, 75, 77, 78, 80 of textbook	Students will gain proficiency in styling text, backgrounds and borders of HTML elements using properties
	Lab Activity	To encourage hand-on practise among students	Lab Activity given on Page no. 85 of Textbook	Students will learn how to set up your CSS file structure
SEPTEMBER	TERM I EXAMINATIONS			
OCTOBER	Chapter 6	To check the knowledge level of students	Previous Knowledge Testing Method	Students will desire to learn new things
	Topic	To emphasize the importance of understanding sequence types for Python programming.	Lecture Method	Students will know able to create lists, tuples in Python
	Topic	To make students understand the range() function in Python, including its syntax, purpose	Demonstration Method	Students will develop a comprehensive understanding of the range() to use it effectively in their coding
	Topic	To make students understand and apply the concepts of "for" and "while" loops in Python, including their syntax, purpose	Kinesthetic Learning Activities	Students will develop a solid understanding of "for" and "while" loops and gain the skills necessary to use them effectively in Python
	Lab Activity	To encourage hand-on practise and experimentation	Lab Activity no. 1,2,3,4,5 given on Page no. 103 of Textbook	Students evaluate their ability to correctly apply loop syntax for deepen understanding and proficiency
	Chapter 7	To check the knowledge level of students	Previous Knowledge Testing Method	Students will desire to learn new things
	Topic	To provide information on the concept of indexing in Python	Structural approach SnapCheck given on Page no. 107	Student will learn how to access characters in a string using Python
	Topic	To make students learn about various String Operations, Built-in functions available in Python	Practical exercise 7.1, 7.2 given in Textbook	Students will learn string operations to be performed on strings
	Topic			Students will learn skill of using built-in functions, string methods in Python

	Topic	To make students learn how to traverse a string	Programs 1, 2, 3, 4, 5 given on Page no. 113, 114, 115	Students will learn about traversing a string using 'for loop' in Python
	Topic	To make students efficient in creating small programs in python		Students will learn how to write small programs using strings in Python
	Lab Activity	To encourage hand-on practise among students	Lab Activity no. 1,2,3,4 given on Page no. 120 of Textbook	Students evaluate their ability to create programs using strings
NOVEMBER	Chapter 8	To check the knowledge level of students	Previous Knowledge Testing Method	Students will desire to learn new things
	Topic	To make students identify and understand the purpose of key interface elements such as the Timeline	Live Demonstration Method	Students will be able to use interface elements in Animate 2020
	Topic	To make students understand the purpose and technique for creation and modifying of symbols and instances	Live Demonstration Method	Students will be able to demonstrate proficiency in creating symbols and instances in Adobe Animate
DECEMBER	Topic	To get students understand and proficiency in creating animations using Adobe Animate 2020	Live Demonstration Method Brainstorming Technique Project-Based Learning	Students will apply learnt animation techniques to create motion, transformation, and masking effects for objects and characters.
	Topic			
	Topic			
	Lab Activity	To encourage hand-on practise among students	Lab Activity no. 1 given on Page no. 148 of Textbook	Students will develop the necessary skills and knowledge to create engaging and visually compelling animations using Adobe Animate
JANUARY	REVISION			
FEBRUARY	TERM II EXAMINATIONS			