ACADEMIC PLAN :2023-24
CARMEL CONVENT SR SEC SCHOOL ,RATANPUR,BHOPAL.

SUBJECT: COMPUTER   STD: VII

Month / No of Working Days	Name of the Unit / Chapter/Topic	Learning Outcomes	Suggested Activities/ Projects under Internal Assessment/PRACTICALS	Assignment	Assessment
APRIL	Ch-1 : External Hardware Devices	Children will Learn about various Input devices, Output devices and Storage devices.	Group Activity: Divide the class into two groups and discuss the topic "Uses of External Storage devices"	Assignment: Paste any three pictures of Input, Output and Storage devices in their workbook.	Solving the puzzle based on External Hardware Devices.
JUNE	Ch-19 : Robotics	1. Similarities and differences between Robots and Humans. 2. Finding relation between AI and Robotics.	Group Activity: Divide the class into two groups and discuss the topic "Humans are superior to Machines always. How?	Holiday Assignment: Using Internet, search the names of the different Robots that are evolved in the recent years . Make a note on it.	Find and encircle five meaningful terms related to Robotics.
JULY	(Ch-1 & 19)	REVISION			PERIODIC TEST 1 [03-07-2023]
	Ch-5: Introduction to QBASIC	1. Understand what QBASIC is. 2. Use Statements of QBASIC (REM, LET, PRINT, INPUT and END) 3. Describe various elements and operators of QBASIC. 4. Save and Run a program.	Practical: Write QBASIC programs for the following: 1. To print the average of three numbers with values 40, 60 and 90. 2. To print the names of 10 states of India.	Assignment: Read the following clues and search the words in the given grid.	Tell the students about the elements of QBASIC, operators, saving and executing of QBASIC programs.
AUGUST	Ch:6 Functions in QBASIC	Children will be able to describe the functions in QBASIC- Use String Function, Use Numeric Functions, Describe DATE() and TIME() Function.	Practical: In Lab, run the different functions in QBASIC. Write their outputs in the space provided in your book. (pg64)	Assignment: Puzzle Encircle the following words in the given puzzle. FUNCTION, MID, LCASE, LEN, EXP, INT, VAL, ABS, SQR, MOD, ASC, DATE and TIME.	Revision Worksheet and Class Test
	Ch-12 : Introduction to Python	1. Understand what Python is. 2. Open, save and execute a file in Python. 3. Use the command line of Python interpreter.	Practical: In Lab, Make the following mathematical calculations using Python. (a) $2 \times 3 + 4^5$ (b) $4 + 2 - 7^3$	Assignment: Solve the following crossword based on the given hints. (Pg 131).	Practice and discuss programming examples in Python.

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SEPTEMBER	[Ch-1,5,6,12,19]	REVISION			TERM-1 EXAM [04-09-2023]
	Ch-15: Working with Animate CC	1. Know components of Animate CC Window. 2. Know view modification tool 3. Know to use tools panel, Flip an object, Import graphics.	Practical: In Lab, perform the following step- by- step: 1. Insert an image in Animate CC software. 2. Flip the image using Flip Horizontal option. 3. Save the File.	Assignment: Unscramble the jumbled letters to get the name of the tools of Animate CC software.	Teach the students how to start Animate CC software. And also use of different tools of this software.
OCTOBER	Ch- 16: Variables in Real Life	1. Learn real life uses of variables. 2. Learn how to initialize variables in programming. 3. Learn different data types. 4. Learn how to perform mathematical operations on data types.	Group Activity:- Divide the class into two groups and discuss the topic " Uses of variables in Real Life".	Assignment: If x=3.6 and y=7.6 then find the value of the following: (a) X+Y= (b) Y-X=	Revision Worksheet
NOVEMBER	Ch-17: Sequencing with Block Coding	1. Learn about sequence construct. 2. Learn about types of loops. 3. Learn interesting projects in Make Code interface by Microsoft.	Practical:- In Lab, Write a program using while loop and for loop (one each), for counting all even numbers from 12 to 120.	Home work: Find and encircle 5 meaningful terms related to this chapter.	Perform the following: 1. How many cases does the below if – else ladder break the input into?
DECEMBER	[Ch- 15,16]	REVISION			PERIODIC TEST 2 [01-12-2023]
	Ch-20: Introduction to Artificial Intelligence	Children will understand: 1. Different types of Intelligence. 2. Distinguish between human intelligence and machine intelligence. 3. Application areas of Artificial Intelligence.	Group Activity: Divide the class into groups and conduct a group discussion on the features of Alexa and Google Home in class.	Project work: Using Internet, search for the history of evolution of artificially intelligent machine. Prepare a nicely decorated project using the images of the different robots evolving over time.	Explain the different types of intelligence to the students.

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JANUARY	Ch-21: Ethics of Artificial Intelligence	1. Understand AI Ethics. 2. Get the importance of AI Ethics. 3. Know about AI challenges. 4. Understand the benefits of Ethical AI. 5. Know about AI code of ethics.	Group Discussion: Discuss in the class whether we should hire programmers /developers based on their understanding of ethics or not.	Assignment: Fill in Letters in the following crossword puzzle.	Revision worksheet and class Test.
FEBRUARY	[Ch-15,16,17,20,21]	REVISION			TERM-2 EXAM [15-02-2024]

NAME OF THE SUBJECT TEACHER: **Mrs. Bhuvan Gangil**

SIGNATURE OF THE SUBJECT COORDINATOR: