CODING

<u>CLASS-VII</u> <u>2023-24</u>

CLASS - VII	<u>CLASS-VII</u> <u>2023-24</u>	
Date	Topic	Ex./ Demo./Practicals
Important links	Student HandBook- https://cbseacademic.nic.in/web_material/codei ngDS/classVIII_Coding_Student_Handbook.pd f	Project Booklet for Student - https://www.microsoft.com/en- us/makecode https://cbseacademic.nic.in/web_mat erial/codeingDS/classVII Coding Pr oject_Booklet.pdf
April	Recaptulation of CODING	
No.of working days-20	What exactly is coding? What is a programming language VARIABLES IN REAL LIFE	Practicals Based on Demo
	1. What are Variables? 2. Naming Variables 3. Data Types in Variables 4. Performing operations on Variables What is Variable Initialization? Data Types in programming Relational operators Greater than Equal to	To create and Initialize a varaiable
	Less than Greater than or equal to Less than or equal to Not equal to	
	Б. Б.	
May	Data Types in programming 1. Integer 2. Floating-Point Number 3. String 4. Boolean How do we validate user input in programming?	Practicals Based on Demo
No.of working days- 11	Math Operations in Programming Addition Subtraction Multiplication Division Modulus	Activity: Mathematical operation using block coding
T1	CEOLIENCING WITH BLOCK CODING	
No.of working days-24	What is Sequencing? Examples of Sequence, Selection and Iteration What is a Bug?	Activity Drawing Rectangle https://minecraft.makecode.com/
Angust	Loons using blook anding	
No.of working days-24	Loops using block coding Introduction to Loops Increment Loops Different types of loops While loop	Fun Activity: Chase the Apple Practicals Based on Demo
	For loop	<u> </u>

September	Apply Loops and Conditionals with sequencing		
No.of working days-23	Is there a better way to apply sequencing?	Activity: Distributing Birthday Sweets	
	Better way to create a square	(https://scratch.mit.edu/)	
		Create a rectangle of length 5 and	
	Introduction of	height 3 using a loop (repeat block) in	
	<u>Code.org</u>	Minecraft.	
October	FUN WITH FUNCTIONS		
October	Introduction	Activity - 1. Calling a function which	
No.of working		has no parameters	
days-19	Examples of Functions in Arcade	2. Calling a function with a single	
uays-19	Examples of Functions in Areade	parameter	
NT 1	DELIN MARKIN ENTRY CONTONIC	Astinitas Calling function to mist	
No.of working days-21	FUN WITH FUNCTIONS Adventages of using functions	Activity Calling function to print	
	Advantages of using functions	statements Activity To display a cube of	
	How to reduce redundancy using functions	ActivityTo display a cube of numbers	
	Advantages of using Functions	Activity - Sorting- Arranging the books	
	What are different Function Parameters?	Taking and easily	
December	FUN WITH FUNCTIONS	Activty- To calculate the area of a	
	Can Function return a value?	circle	
	What is an event?	Activity- Return Values from	
	What are Event Handlers?	Functions	
No.of working			
days-25	COLLECTIONS	Example 1: Is 36 a perfect square?	
	What arte collections?	Activity – Algorithm for a	
	What are arrays?	perfect square	
January	UNDERSTANDING ARRAYS &	Activity - To create an array and calculate its length	
	COLLECTIONS		
	How can we iterate over collections?		
No.of working days-13	Modifying Collections	Activity- To print the first element of Array	
	Adding Elements During Iteration	Activity - To calculate the sum of	
	Removing Elements During Iteration	elements in an array	
February			
r cor uar y			
No.of working days-24	Submission and assessment of the projects		
Note: The students will be assessed on the basis of the classroom performance, task assigned as Home			
Assignments / Holiday Homework / Project.			