<u>CLASS-VII</u> <u>CODING</u> <u>2024-25</u>

CLASS -VII	<u>CODING</u>	<u>2024-25</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	
	What exactly is coding? What is a programming language VARIABLES IN REAL LIFE	Practicals Based on Demo
No.of working	 What are Variables? Naming Variables Data Types in Variables Performing operations on Variables What is Variable Initialization? Data Types in programming 	
days-22	Relational operators Greater than Equal to Less than Greater than or equal to Less than or equal to Not equal to	To create and Initialize a varaiable
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- 18	Math Operations in Programming Addition	Activity: Mathematical operation using block coding
July	SEQUENCING WITH BLOCK CODING	Activity Duoving Duot 1
No.of working days-25	What is Sequencing? Examples of Sequence, Selection and Iteration What is a Bug?	Activity Drawing Rectangle https://minecraft.makecode.com/
August	Loops using block coding Introduction to Loops	Fun Activity: Chase the Apple
No.of working days-23	Increment Loops Different types of loops While loop For loop	Practicals Based on Demo

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/)
	Introduction of Code.org	Create a rectangle of length 5 and height 3 using a loop (repeat block) in Minecraft.
October	FUN WITH FUNCTIONS	Activity - 1. Calling a function which
No.of working days-20	Introduction What exactly are functions? Examples of Functions in Arcade	has no parameters 2. Calling a function with a single parameter
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No.of working days-23	FUN WITH FUNCTIONS Advantages of using functions	Activity Calling function to print statements
	How to reduce redundancy using functions	ActivityTo display a cube of numbers
	Advantages of using Functions What are different Function Parameters?	Activity - Sorting- Arranging the books
December	FUN WITH FUNCTIONS	Activty- To calculate the area of a circle
	Can Function return a value?	
	What is an event?	Activity- Return Values from
No of working	What are Event Handlers? UNDERSTANDING ARRAYS &	Functions
No.of working days-24	COLLECTIONS	Example 1: Is 36 a perfect square?
	What arte collections? What are arrays?	Activity – Algorithm for a perfect square
January	UNDERSTANDING ARRAYS & COLLECTIONS	Activity - To create an array and calculate its length
No.of working days-13	How can we iterate over collections?	
	Modifying Collections	Activity- To print the first element of Array
	Adding Elements During Iteration	Activity - To calculate the sum of elements in an array
	Removing Elements During Iteration	
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No.of working days-22	Submission and assessment of the projects	
Note: The stud	ents will be assessed on the basis of the classroom Assignments / Holiday Homework	-