

**CLASS -VII****CODING****Session- 2025-26**

Date	Topic	Ex./ Demo./Practicals
<b>Important links</b>	<b>Student HandBook-</b> <a href="https://cbseacademic.nic.in/web_material/codeingDS/classVIII_Coding_Student_Handbook.pdf">https://cbseacademic.nic.in/web_material/codeingDS/classVIII_Coding_Student_Handbook.pdf</a>	<b>Project Booklet for Student -</b> <a href="https://www.microsoft.com/en-us/makecode">https://www.microsoft.com/en-us/makecode</a> <a href="https://cbseacademic.nic.in/web_material/codeingDS/classVII_Coding_Project_Booklet.pdf">https://cbseacademic.nic.in/web_material/codeingDS/classVII_Coding_Project_Booklet.pdf</a>
<b>April</b>	<b>Recaptulation of CODING</b>	
No.of working days-22	What exactly is coding?	Practicals Based on Demo
	What is a programming language	
	<b>VARIABLES IN REAL LIFE</b>	
	1. What are Variables?	To create and Initialize a variable
	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	
	Less than	
	Greater than or equal to	
	Less than or equal to	
	Not equal to	
<b>May</b>	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- 19	Math Operations in Programming Addition Subtraction Multiplication Division Modulus	Activity: Mathematical operation using block coding
<b>July</b>	<b>SEQUENCING WITH BLOCK CODING</b>	Activity Drawing Rectangle
No.of working days-26	What is Sequencing?	<a href="https://minecraft.makecode.com/">https://minecraft.makecode.com/</a>
	Examples of Sequence, Selection and Iteration	
	What is a Bug?	
<b>August</b>	<b>Loops using block coding</b>	
No.of working days-23	Introduction to Loops	Fun Activity: Chase the Apple
	Increment Loops	Practicals Based on Demo
	Different types of loops	
	While loop	
	For loop	

<b>September</b>	<b>Apply Loops and Conditionals with sequencing</b>	
No.of working days-23	Is there a better way to apply sequencing?	Activity: Distributing Birthday Sweets
	Better way to create a square	( <a href="https://scratch.mit.edu/">https://scratch.mit.edu/</a> )
	<a href="#">Introduction of Code.org</a>	Create a rectangle of length 5 and height 3 using a loop (repeat block) in Minecraft.
<b>October</b>	<b>FUN WITH FUNCTIONS</b>	
No.of working days-18	Introduction	Activity - 1. Calling a function which has no parameters 2. Calling a function with a single parameter
	What exactly are functions?	
	Examples of Functions in Arcade	
<b>November</b>	<b>FUN WITH FUNCTIONS</b>	Activity -. Calling function to print statements
No.of working days-23	Advantages of using functions	Activity - .To display a cube of numbers
	How to reduce redundancy using functions	
	Advantages of using Functions	Activity - Sorting- Arranging the books
	What are different Function Parameters?	
<b>December</b>	<b>FUN WITH FUNCTIONS</b>	Activty- To calculate the area of a circle
No.of working days-25	Can Function return a value?	Activity- Return Values from Functions
	What is an event?	
	What are Event Handlers?	
	<b>UNDERSTANDING ARRAYS &amp; COLLECTIONS</b>	Example 1: Is 36 a perfect square?
	What arte collections? What are arrays?	Activity – Algorithm for a perfect square
<b>January</b>	<b>UNDERSTANDING ARRAYS &amp; COLLECTIONS</b>	Activity - To create an array and calculate its length
No.of working days-13	How can we iterate over collections?	Activity- To print the first element of Array
	Modifying Collections	
	Adding Elements During Iteration	Activity - To calculate the sum of elements in an array
	Removing Elements During Iteration	
<b>February</b>	<b>Submission and assessment of the projects</b>	
No.of working days-23		
<b>Note: The students will be assessed on the basis of the classroom performance, task assigned as Home Assignments / Holiday Homework / Project.</b>		