

Date	Topic	Ex./ Demo./Practicals
Important links	Student HandBook- https://cbseacademic.nic.in/web_material/codeingDS/classVII_Coding_Student_Handbook.pdf	Project Booklet for Student - https://www.microsoft.com/en-us/makecode https://cbseacademic.nic.in/web_material/codeingDS/classVI_Coding_Project_Booklet.pdf
April	INTRODUCTION TO CODING	
No.of working days-22	How do traffic lights work?	Practicals Based on Demo
	Where else do we see applications of coding?	
	What exactly is coding?	Activity - How do traffic lights
	What is a programming language	Quiz Time
May	ALGORITHMS WITH BLOCK CODING	Activity – Profit and Loss using Flowcharts
No.of working days- 19	1. Searching for a word in a dictionary	
	2. Flowchart	
	a. What is a Flowchart?	Quiz Time
	b. Symbols used created a Flowchart	Practicals Based on Demo
	c. Benefits of using a flowchart	
	3. Activity – Profit and Loss using Flowcharts	
July	ALGORITHMS WITH BLOCK	
No.of working days-26	4. What is a Pseudocode	Activity – Profit and Loss using pseudocode
	5. Activity – Profit and Loss using pseudocode	
	6. Getting Started with Block Coding	
	VARIABLES USING BLOCK CODING	
	1. What are Variables?	To create variable 'a' in makecode arcade and assign it a value of 10
	2. Naming Variables	
August	VARIABLES USING BLOCK CODING	Activity: Addition operation using block coding
No.of working days-23	3. Data Types in Variables	
	4. Performing operations on Variables	Quiz Time
September	CONTROL WITH CONDITIONALS	
No.of working days-23	Arranging blocks	Practicals Based on Demo
	Logical Operators	
	a. And operator	
	b. OR operator	
	c. Not operator	Quiz time
	Combining logical operators	

October	CONTROL WITH CONDITIONALS	
No.of working days-18	Relational operators	Activity: Are you a teen?
	Greater than	
	Equal to	
	Less than	
	Greater than or equal to	
	Less than or equal to	
November	CONTROL WITH CONDITIONALS	Activity: Dynamic backgrounds
No.of working days-23	Nested Conditional Statements	Activity: The remainder problem
	Activity: The remainder problem	
December	Loops using block coding	
No.of working days-25	Introduction to Loops	Practicals Based on Demo
	Increment Loops	
	Different types of loops	
	While loop	
	For loop	
January	Loops using block coding	Activity: Building a music player
No.of working days-13	The Nested Loop	Activity: A tale of two villages
	Entry Criteria	
	Break Statement	
	Exit Criteria	
	Continue statement	
February	Submission and assessment of the projects	
No.of working days-23		
Note: The students will be assessed on the basis of the classroom performance, task assigned as Home Assignments / Holiday Homework / Project.		