

| 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-24 | 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 | |
| No.of working days-6 | 1. Searching for a word in a dictionary | Activity – Profit and Loss using Flowcharts |
| | 2. Flowchart | |
| | a. What is a Flowchart? | |
| | b. Symbols used created a Flowchart | |
| | c. Benefits of using a flowchart | |
| | 3. Activity – Profit and Loss using Flowcharts | Quiz Time Practicals Based on Demo |
| 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 | |
| No.of working days-21 | 3. Data Types in Variables | Activity: Addition operation using block coding |
| | 4. Performing operations on Variables | Quiz Time |
| September | CONTROL WITH CONDITIONALS | |
| No.of working days-24 | Arranging blocks | Practicals Based on Demo |
| | Logical Operators | |
| | a. And operator | Quiz time |
| | b. OR operator | |
| c. Not operator | | |
| Combining logical operators | | |

| | | |
|---|--|-----------------------------------|
| October | CONTROL WITH CONDITIONALS | |
| No.of working days-21 | Relational operators | Activity: Are you a teen? |
| | Greater than | |
| | Equal to | |
| | Less than | |
| | Greater than or equal to | |
| | | |
| | | |
| November | CONTROL WITH CONDITIONALS | Activity: Dynamic backgrounds |
| No.of working days-21 | Nested Conditional Statements | Activity: The remainder problem |
| | Activity: The remainder problem | |
| | | |
| December | Loops using block coding | |
| No.of working days-24 | 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-17 | The Nested Loop | Activity: A tale of two villages |
| | Entry Criteria | |
| | Break Statement | |
| | Exit Criteria | |
| | Continue statement | |
| | | |
| February | | |
| No.of working days-22 | 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. | | |