



**BLOOM PUBLIC SCHOOL**  
**C-8 Vasant Kunj, New Delhi**  
**Syllabus for the Session 2025-26**

**Class: VII**

**Subject: Coding**

<b>MONTH</b>	<b>Content(Topics) (Class VII Coding Handbook)</b>	<b>Practical/Activities</b>
<b>April</b>	<b>Variables in Real Life</b> <ul style="list-style-type: none"> <li>• What is Variable Initialization?</li> <li>• Data types in programming</li> </ul> <b>Number System</b> <ul style="list-style-type: none"> <li>• Number System</li> <li>• Number System Conversion</li> <li>• Operations on Binary Numbers</li> </ul>	-----
<b>May</b>	<b>Variables in Real Life</b> <ul style="list-style-type: none"> <li>• How do we validate user input in programming?</li> <li>• Performing Math Operations in Programming</li> </ul> <b>Introduction to HTML</b> <ul style="list-style-type: none"> <li>• About HTML</li> <li>• Features of HTML</li> <li>• HTML Tags and Attributes</li> <li>• Rules for Writing HTML Codes</li> </ul>	<ul style="list-style-type: none"> <li>• Practical for HTML</li> </ul>
<b>July</b>	<b>Sequencing with Block Coding</b> <ul style="list-style-type: none"> <li>• What is Sequencing?</li> <li>• Examples of Sequence, Selection and Iteration</li> <li>• What is a bug?</li> <li>• Types of Loops</li> <li>• How to apply the concept of Sequencing in Loops and Conditionals?</li> </ul> <b>Introduction to HTML</b> <ul style="list-style-type: none"> <li>• HTML Document Structure</li> <li>• Creating and Saving an HTML Document</li> </ul>	<ul style="list-style-type: none"> <li>• Codes in code.org</li> </ul>

<b>August</b>	<b>Fun with Functions</b> <ul style="list-style-type: none"> <li>• What exactly are functions?</li> <li>• How to reduce redundancy using functions?</li> <li>• Advantages of using functions</li> <li>• What are different function parameters?</li> <li>• Can a function return a value?</li> </ul> <b>Creating HTML Documents</b> <ul style="list-style-type: none"> <li>• Viewing a Web Page</li> <li>• Basic HTML Tags</li> <li>• Designing a Web Page</li> </ul>	<ul style="list-style-type: none"> <li>• Codes in code.org</li> <li>• Practical for HTML</li> </ul>
<b>September</b>	<b>Fun with Functions</b> <ul style="list-style-type: none"> <li>• What is an event?</li> <li>• What are event handlers</li> </ul> <b>Creating HTML Documents</b> <ul style="list-style-type: none"> <li>• Editing an existing HTML Document</li> <li>• Font Tag and its Attributes (Size, face, Color)</li> <li>• Creating Headings and Paragraphs</li> <li>• Align Attribute (for Headings and Paragraphs)</li> <li>• Line Breaks</li> </ul>	<ul style="list-style-type: none"> <li>• Codes in code.org</li> <li>• Practical for HTML</li> </ul>
<b>October</b>	<b>Understanding Arrays and Collections</b> <ul style="list-style-type: none"> <li>• What are Collections?</li> <li>• What are Arrays?</li> <li>• How exactly can we iterate over Collections?</li> </ul> <b>HTML</b> <ul style="list-style-type: none"> <li>• Body Tag Attributes (Background, Bgcolor, Link, Text, LeftMargin, TopMargin, Align)</li> <li>• Insert Image and links</li> <li>• Horizontal Rule and attributes (size, width, align, color, noshade)</li> </ul>	<ul style="list-style-type: none"> <li>• Codes in code.org</li> <li>• Practical for HTML</li> </ul>
<b>November</b>	<b>Understanding Arrays and Collections</b> <ul style="list-style-type: none"> <li>• Modifying Collections</li> <li>• Adding Elements During Iteration</li> <li>• Removing Elements During Iteration</li> </ul> <b>Lists in HTML</b> <ul style="list-style-type: none"> <li>• Lists and Types of Lists</li> <li>• Ordered Lists- Attributes of the &lt;ol&gt; tag (Start and Type)</li> <li>• Unordered List- Attributes of the &lt;ul&gt; tag (Type)</li> <li>• Define List and Nested List</li> </ul> <b>HTML Tables</b> <ul style="list-style-type: none"> <li>• Creating Tables using &lt;table&gt; Tag and its Attributes</li> <li>• Adding images in the cell</li> </ul>	<ul style="list-style-type: none"> <li>• Codes in code.org</li> <li>• Practical for HTML</li> </ul>

<b>December</b>	<b>Hello World With Code</b> <ul style="list-style-type: none"> <li>• What is a programming language?</li> <li>• Getting used to syntax</li> <li>• What are variables and data types in programming?</li> </ul> <b>Google Slides</b> <ul style="list-style-type: none"> <li>• Working with WordArt, inserting picture</li> <li>• Using Animations and Transitions.</li> <li>• Applying background</li> <li>• Insert audio and video</li> <li>• Bullets &amp; Numbering</li> </ul>	<ul style="list-style-type: none"> <li>• Codes in Code.org</li> <li>• Practical og Google Sides</li> </ul>
<b>January</b>	<b>Introduction to Python</b> <ul style="list-style-type: none"> <li>• Python</li> <li>• Features of Python</li> <li>• Installing Python</li> <li>• Modes of Python IDLE</li> <li>• The input() and print() Functions</li> <li>• Using Separators with print() Function</li> <li>• Comments in Python</li> </ul> <b>Cyber Safety</b> <ul style="list-style-type: none"> <li>• What is the Internet?</li> <li>• Cyber Crimes</li> <li>• Cyber Safety</li> <li>• Digital Footprints</li> </ul>	<ul style="list-style-type: none"> <li>• Practical of Python Programs</li> </ul>
<b>February</b>	Revision	
<b>March</b>	Annual Exam	

### **MID TERM EXAM**

Variables in real Life  
 Number System  
 Introduction to HTML  
 Sequencing with Block Coding  
 Fun with Functions  
 Creating HTML Documents

### **ANNUAL EXAM**

Understanding Arrays and Collections  
 HTML  
 Lists in HTML  
 HTML Tables  
 Hello World With Code  
 Google Slides  
 Introduction to Python  
 Cyber Safety

