

**KENDRIYA VIDYALAYA SANGATHAN  
MUMBAI REGION  
HALF YEARLY SYLLABUS 2018-19**

**CLASS : XI**

**SUBJECT: INFORMATICS PRACTICES**

S.No	NAME OF THE CHAPTERS
<b>1</b>	<b>Basic Computer Organization</b>
	<ul style="list-style-type: none"> <li>Basic computer organization: describe a computer system and mobile system, CPU, memory, hard disk, I/O, battery, power, transition from a calculator to a computer</li> </ul>
<b>2</b>	<b>Basic Python Programming</b>
	<ul style="list-style-type: none"> <li>Familiarization with the basics of Python programming: a simple "hello world" program, process of writing a program, running it, and print statements; simple data-types: integer, float, string</li> <li>simple data-types: integer, float, string</li> <li>Introduce the notion of a variable, and methods to manipulate it (concept of L-value and R-value even if not taught explicitly)</li> <li>Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence.</li> </ul>
<b>3</b>	<b>Control Flow In Python and Programming</b>
	<ul style="list-style-type: none"> <li>Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility.</li> <li>Notion of iterative computation and control flow: for, while, flowcharts, decision trees and pseudo code; write a lot of programs: interest calculation, EMI, tax calculation (examples from GST), standard deviation, correlation</li> </ul>
<b>4</b>	<b>LIST &amp; DICTIONRIES</b>
	<ul style="list-style-type: none"> <li>Lists and dictionary: finding the maximum, minimum, mean; linear search on a list of numbers, and counting the frequency of elements in a list using a dictionary.</li> </ul>
<b>5</b>	<b>Text Handling</b>
	<ul style="list-style-type: none"> <li>Text handling: compare, concat, and substring operations</li> </ul>