

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

CLASS : XI

SUBJECT: INFORMATICS PRACTICES

S.No	NAME OF THE CHAPTERS
1	Basic Computer Organization
	<ul style="list-style-type: none"> 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
2	Basic Python Programming
	<ul style="list-style-type: none"> 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 <p>simple data-types: integer, float, string</p> <ul style="list-style-type: none"> Introduce the notion of a variable, and methods to manipulate it (concept of L-value and R-value even if not taught explicitly) Knowledge of data types and operators: accepting input from the console, assignment statement, expressions, operators and their precedence.
3	Control Flow In Python and Programming
	<ul style="list-style-type: none"> Conditional statements: if, if-else, if-elif-else; simple programs: e.g.: absolute value, sort 3 numbers, divisibility. 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
4	LIST & DICTIONRIES
	<ul style="list-style-type: none"> 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.
5	Text Handling
	<ul style="list-style-type: none"> Text handling: compare, concat, and substring operations