

**MPVM GANGA GURUKULAM**  
**Syllabus Breakup of Computer Science (New)**

MONTH	TOPICS
July	Basics of Python programming Concept of variable and methods, Data types operators Process of writing a program, running it and print statement Introduction of variable and data-types
August	Operators and their precedence, assignment statement, expressions Conditional statements – if, if-else, if-elif-else
September	Control statements – for, while – flowcharts and relative programs Programs like- absolute value, sort 3 numbers and divisibility etc. List, tuples, dictionary, linear search on list, tuples, counting the frequency of numbers
October	Sorting algorithm :bubble and insertion sort Strings: compare, concat, states and transitions
November	<b>Computer System and Organization</b> Basic computer organization Types of software, Boolean logic, ASCII, ISCII Information Representation Execution of a program –interpreter and compiler
December	Concept of cloud computers
January	<b>Data Management :</b> Concept and need of relational database, keys Use of SQL commands to create a table, keys Basic SQL : Select, project and join
February	<b>Society, law and Ethics- Cyber safety</b> Safe browsing, accessing information over internet and data communication Appropriate usage of social networks

Unit test 1 : Basic computer organization

Use of variable, data types

Operators and conditional statements- if, if –else, if – elif-else

Half yearly: Basic python programming, operators conditional statements, control structures

List tuples dictionary, sorting and string

Unit test 2: Computer system organization-basic, information representation

Boolean logic and execution of program

Annual Exam: Complete syllabus