

MPVM GANGA GURUKULAM
Syllabus BreakUp of Informatics Practices (New)

MONTH	TOPICS
July	<ul style="list-style-type: none"> Basic computer organization Basics of Python programming Process of writing a program, running it and print statement Introduction of variable and data-types
August	<ul style="list-style-type: none"> Operators and their precedence, assignment statement, expressions Conditional statements – if, if-else, if-elif-else
September	<ul style="list-style-type: none"> Control statements – for, while – flowcharts and relative programs Programs like- interest calculation, tax calculation, standard deviation etc. List and Dictionary Linear search , counting the frequency of elements in a list using a dictionary
October	<ul style="list-style-type: none"> Text handling - compare , concat and substring operations Introduction of Python modules
November	Data Handling: <ul style="list-style-type: none"> Introduction to Python Pandas Data structures in Pandas - series and data frame Operations on a series Data Frame operations- create display, iteration, select, add and delete column Binary operations in a Data Frame Comparisons, Boolean reductions, combining Data Frames.
December	Transfer data between CSV Files/SQL database and Data Frame objects
January	Data Management : <ul style="list-style-type: none"> Concept and need of relational database , keys Use of SQL commands to create a table, keys Basic SQL : Select, project and join
February	Society , law and Ethics- Cyber safety <ul style="list-style-type: none"> 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 Exam	:	Control statements , List and Dictionary handling operations, Text handling and Python modules
Unit test 2	:	Python Pandas
Annual Exam	:	Complete syllabus