



**Name of Course: PYTHON**

**Duration:** 120 Hrs.

**Offered by:** Ramakrishna Sarada Mission Vivekananda Vidyabhavan and Sri Sarada Math Rasik Bhita

**Eligibility:** 10 + 2 Passed and RKSMVV Students (With Any Science Subject)

**Fee Structure:**

Admission Fee – Nil

Course Fee – 1,500/-

**Intake Capacity:** 20

**Course Overview:**

Python is a high-level, interpreted, interactive and object-oriented scripting language. Python is designed to be highly readable. It uses English keywords frequently where as other languages use punctuation, and it has fewer syntactical constructions than other languages.

**Course Objectives:**

- To build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions.

- To work with user input to create fun and interactive programs.
- To create simple games with images, animations, and audio using custom beginner-friendly programming library, Wizardlib.

**Syllabus in Modules:**

<b>Python</b>		
<b>Module</b>	<b>Content</b>	<b>Duration(Hrs.)</b>
1	Python tokens ( Keyword, Identifier, Literal, Punctuator)	2
2	Python Variables	2
3	Data Types	2
4	Python Comments	2
5	Operators	2
6	Expression	2
7	Statement	2
8	Input and Output	2
9	Type Conversion	2
10	Math Module	2
11	Conditional Statements	2
12	Iterative statements: While Loops, For Loops, Nested Loops	2
13	Strings, Formatted Strings, String Methods	2
14	Lists Tuples, Dictionary	2
15	Concepts of function	2
Total duration		30

**Resource Persons:**

***Sanhita Pal***, Faculty, Computer, Sri Sarada Math Rasik Bhitra

***Dr. Kalyan Brata Chatterjee***, Assistant Professor, Department of Physics,  
Ramakrishna Mission Vivekananda Centenary College

**Learning Outcomes:**

Python can open new possibilities for those in less data-heavy professions, like journalists, small business owners, or social media marketers. Python can also enable non-programmers to simplify certain tasks in their lives. Here are just a few of the tasks one could automate with Python:

- Keep track of stock market or crypto prices
- Send oneself a text reminder to carry an umbrella anytime it's raining
- Update your grocery shopping list
- Renaming large batches of files
- Converting text files to spreadsheets
- Randomly assign chores to family members
- Fill out online forms automatically

**Assessment Procedure:**

Three Formative Assessments' scores are provided as percentages. The Total Grade is determined based on the overall performance across all assessments. The Continuous Assessment column provides a general evaluation of the students' participation, engagement and adherence to deadlines throughout the course.

Grading criteria along with the corresponding percentage ranges:

A: 90%-100%

B: 80%-89%

C: 70%-79%

D: 60% - 69%

F : Below 60%