

**DEPARTMENT OF MATHEMATICS  
DEVA MATHA COLLEGE, KURAVILANGAD**

**Affiliated to Mahatma Gandhi University, Kottayam**



**Syllabus**

**ADD-ON COURSE**

**in**

**INTRODUCTION TO PYTHON  
FOR MATHEMATICS STUDENTS**

**Academic Year: 2021-22**



*Deva Matha College  
Kuravilangad, Kottayam,  
Kerala - 686633*



**DEVA MATHA COLLEGE KURAVILANGAD**

**DEPARTMENT OF MATHEMATICS**

*Add on Courses offered for Students:2021-2022*

- **Microsoft Office - *for II DC Students***  
**DMCK/ MATH/AD 20/2021**
- **LaTeX for Documentation - *for III DC Students***  
**DMCK/ MATH/AD 21/2021**
- \* **II PG -Data Analytics Using R-11 - *for PG Students***  
**DMCK/STATS/AD 38/2021**
- \* **I PG- Introduction of Python (for Mathematics Students)**  
**DMCK/ MATH/AD 22/2021**

***Department Coordinator: Mr.Christy Tom Mathews***

Title: Introduction to Python for Mathematics Students

Instructional Hours: 30

Duration: 6 months

Mode of Instruction: Online and Offline

Intake Capacity: 40 students

Eligibility: Plus Two (preferably science background in ongoing UG /PG course)



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## **Add-on Course in**

### **DMCK/MATH/AD22/2021: Introduction to Python for Mathematics Students**

Duration: 30 hours

#### **Course Objectives**

- Provide basic knowledge in Python programming
- Give idea on python operators, loops, lists and tuples
- Enable students to work with strings and functions

#### Syllabus

##### MODULE 1

- Introduction to Python, its installation, IDLE and file name
- Output function, Arithmetic operators, input variables
- Assignment statement, simple string operations

##### MODULE 2

- While loop
- If statement
- relational operators
- For loops

##### MODULE 3

- Creating strings
- Lists, tuples
- complex numbers

##### MODULE 4

- Using functions
- parts of a function
- using modules
- mathematical functions

#### **Course Outcome**

- Interpret the fundamental Python syntax
- Identify the commonly used operations involving file systems and regular expressions
- Express proficiency in the handling of strings and functions.



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### **Assessment Procedure**

The assessment will be based on Attendance, Assignments Practical and Theory Examination

<b>Attendance</b>	<b>10</b>
<b>Assignment</b>	<b>20</b>
<b>Practical</b>	<b>20</b>
<b>Written Exam</b>	<b>50</b>

### **Grading**

<b>Marks</b>	<b>Grade</b>
<b>95-100</b>	<b>S</b>
<b>80-90</b>	<b>A+</b>
<b>70-80</b>	<b>A</b>
<b>60-70</b>	<b>B</b>



*Principal*  
*Deva Matha College*  
*Kuravilangad - 686 633*