DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



Syllabus

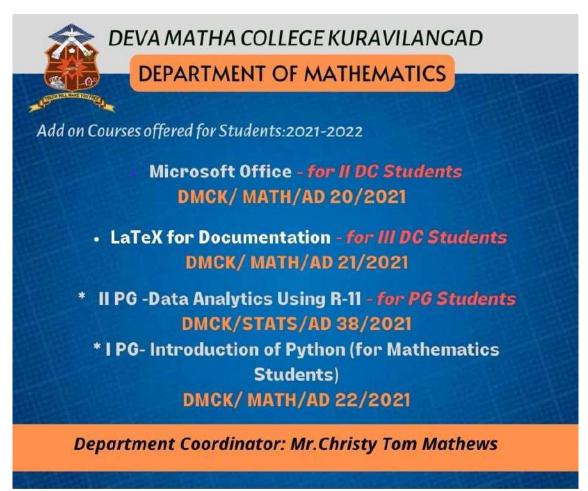
ADD-ON COURSE

in

INTRODUCTION TO PYTHON FOR MATHEMATICS STUDENTS

Academic Year: 2021-22





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)



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.



Assessment Procedure

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

Attendance	10
Assignment	20
Practical	20
Written Exam	50

Grading

Marks	Grade
95-100	S
80-90	A+
70-80	Α
60-70	В



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