



ST ALOYSIUS COLLEGE (AUTONOMOUS), MANGALORE

Re-accredited by NAAC with 'A++' Grade - CGPA 3.67/4 (Cycle IV)
Recognised as Centre for Research Capacity Building under UGC-SERIDE Scheme
Recognised under the DBT-BUILDER Scheme, Govt. of India
College with 'STAR STATUS' conferred by DBT, Govt. of India
Recognised by UGC as 'College with Potential for Excellence'

UG Department of Mathematics

offers

AN ONLINE COURSE

PYTHON FOR MATHEMATICS

Our course aims to equip learners with the knowledge and techniques necessary to leverage computational tools for solving intricate mathematical problems. The acquired skills will enhance individuals' capabilities, bridging traditional mathematical knowledge with a power of computation, offering a valuable asset to broaden their expertise.

Course Details:

- Course fee: Rs 500
- Course duration : 30 hours
- Self paced online mode
- E-certificate on course completion
- Eligibility : Student from any course
- Student having no background of computer languages are also eligible



COURSE INSTRUCTOR
Mr Larson Monteiro
Business Analyst
Tekzen Systems, Mysore

**HURRY UP &
ENROL
NOW.....**

Register at: <https://sac-elearning.com/courses/https-sac-elearning-com-courses-python-for-mathematics/>

Ms Priya Monteiro
HOD, Mathematics

Rev. Dr. Praveen Martis SJ
Principal

For more details contact:

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PYTHON FOR MATHEMATICS

Course type: Certificate Program

Title: Python for Mathematics

Course Description:

Python is a popular language and widely used in many areas due to versatile in nature. This course focuses on to add a new feather to your cap through gaining a new skill. Additionally, if you are hesitant to take up due to your background not being in computer science, well then, this shouldn't stop you. Python can help you achieve your academic, professional, and may be sometimes personal goals. Instructions and illustrations will be simple. It can help you improve your understanding and aptitude skills. Mathematics with Python will be a new dimension that you will explore in this course. You will appreciate the beauty of equations when visualized.

This course will be conducted by Mr Larson Monteiro, an external faculty, from the IT industry in collaboration with the Department of UG mathematics, St Aloysius (Deemed to be University), Mangalore.

Course details:

- **Course duration:** 30 hours which comprises of video lectures, reading material and quizzes.
- **Course fee:** Rs 500
- **Target Audience:** Open to all
- Enrolled students shall dedicate at least 2 hours towards the course per week.
- The course can be accessed through St Aloysius College e-learning platform:
<https://sac-elearning.com/courses/https-sac-elearning-com-courses-python-for-mathematics/>
- E certificate will be provided on successful completion of the course.

Course syllabus:

UNIT I : ABCs of Python

- a. What is python?
- b. What can Python do?
- c. What is Python Good for?
- d. How to Install Python?
- e. Python Syntax.
- f. How to execute Python statements and file? Research!
- g. Python Indentation
- h. Variables, Statements
- i. Data Types
- j. Numbers, Casting
- k. String, Boolean

UNIT II: Structure of Python

- a. List
- b. Tuple, (Working with sequence Book)

- c. Sets
- d. Dictionaries
- e. IF, IF Else
- f. While loop, For loop

UNIT III: Advancing in Python

- a. Function
- b. Lambda functions
- c. Classes
- d. File handling

UNIT 4: Matplotlib & Numpy

Scheme of Examination: Duration of Exam : 45 minutes

Number of Questions: 30 (Each question carrying 1 mark)

Minimum passing grade: 50%

For more details, contact course co-ordinator:

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