



Department of Mathematics 2022-2023

Courses Offered

- **Certificate Course: Basics in Python**
- **Add-on Course: Typesetting in LaTeX**
- **Value Added Course: Advanced LaTeX**

<https://stjohns.ac.in/academics/departments/mathematics-statistics/>



ST. JOHN'S COLLEGE, ANCHAL

Affiliated to the University of Kerala

COURSE SUMMARY REPORT 2022-23

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Name of Course	CERTIFICATE COURSE: Basics in Python
Course Duration	30 Hours
Department Offering the Course	Department of Mathematics
Faculty In Charge	Dr. Dilip D. S
Number of Students Enrolled	66
Start Date & End Date	07-10-2022 to 7-01-2023

The Basics in Python organized by Department of Mathematics, St. John's college, Anchal aimed at introducing students to the fundamentals of Python programming language. This report summarizes the key aspects and outcomes of the course. The primary objective of the course was to equip undergraduate (UG), postgraduate (PG) students, and Ph.D. scholars with essential programming skills. Students will learn the basic syntax and structure of the language, as well as how to write and debug programs. They will also gain an understanding of the various libraries and frameworks that are available for Python and learn how to use them effectively. The course spanned over 30 hours, comprising both theoretical sessions and practical examinations. The classes were conducted by experienced faculty members from the Department of Mathematics, ensuring the delivery of high-quality education.

Course Highlights: Introduction to Python programming language: Participants were taught the basic syntax and structure of the language, as well as how to write and debug programs Syntax and Commands.

Practical Examinations: Assessments were conducted to evaluate participants' programming skills.

Outcomes: More than Upon completion of the course, students will have a strong understanding of Python programming language. They will be able to write and debug programs using Python, and have a good understanding of the libraries and frameworks that are available. Additionally, students will be able to continue their studies in other programming languages and related fields with more confidence and proficiency.

The course duration was 30 hours. 66 students enrolled for the program. 54 students completed the course. The course started on 07-10-2022 and ended on 7-01-2023. During the end of course, practical examination was conducted. Final assessment was done based on the marks secured by them during the practical examination. Certificates were also provided to them after the successful completion of the course.

Venue: Computer Lab, St. John's College, Anchal


Course Coordinators:

Dr. Dilip. D.S

Assistant Professor

Department of Mathematics S.John's College, Anchal


Course Coordinator


Principal
St. John's College,
Anchal-691 306

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Certificate Course: Basics in Python
MM.C.22.1

Syllabus

Module 1: An Introduction to Python

- What can Python do?
- Why Python?
- Good to know
- Python Syntax compared to other programming languages
- Python Install


Module 2: Beginning Python Basics

- The print statement
- Comments
- Python Data Structures & Data Types
- String Operations in Python
- Simple Input & Output
- Simple Output Formatting
- Operators in python

Module 3: Python Program Flow

- Indentation
- The If statement and its' related statement
- An example with if and it's related statement
- The while loop
- The for loop
- The range statement
- Break &Continue
- Assert
- Examples for looping

DSN
Course Coordinator

 P.B. No.3,
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Module 4: Functions & Modules

- Create your own functions
- Functions Parameters
- Variable Arguments
- Scope of a Function
- Function Documentations
- Lambda Functions & map
- Exercise with functions
- Create a Module
- Standard Modules

Module 5: Exceptions Handling

- Errors
- Exception handling with try
- handling Multiple Exceptions
- Writing your own Exception


Eligibility

- Undergraduate, postgraduate students and PhD scholars

Certificates of Completion

After successful completion of the course, you can claim your Certificate of Completion with no extra cost!


Course Coordinator

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