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T. K. M. COLLEGE OF ARTS AND SCIENCE

NAAC RE-ACCREDITED "A++" GRADE

Kollam-691005, Kerala

Ref

Date

Department of Mathematics

Certificate Course in

PYTHON

2023-2024

Course Coordinator: Nisamudeen Ashique P.K.

Assistant Professor

Department of Mathematics

TKM College of Arts and Science

Instructional hours per week: 2

Total hours: 30
Max Mark: 100

Aims and Objectives

Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms. Through this course you will have a fundamental understanding of the Python programming language.

The course content is divided in to five modules.

- Module I:** Stepping in to the world of Python
Module II: Program flow control in Python
Module III: List and Tuples
Module IV: Functions – An introduction
Module V: Dictionaries and Sets

Targeted Audience: Undergraduate students of any discipline.

Prerequisites: Basic computer knowledge.

Instructional Methods

1. Online/Offline lectures.
2. Lab sessions
3. Web resources in terms of videos and tutorials

Course Outcomes: Upon successful completion of this course the students should be able to

- Acquire the prerequisite Python skills to move into specific branches - Machine Learning, Data Science, etc..
- Understand how to create your own Python programs.
- Have the skills and understanding of Python to confidently apply for Python programming jobs.
- Add the Python Object-Oriented Programming (OOP) skills to your resume.

Evaluation

1. Quiz based on the topic – 30 marks
2. Practical examination at the end of the course- 50 marks
3. Assignment/Record – 20 marks

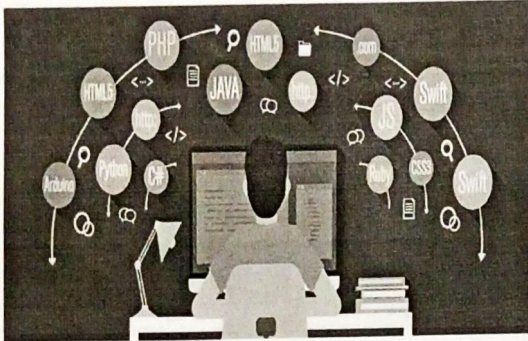
References

1. <https://docs.python.org/3/tutorial/index.html>



T.K.M. COLLEGE OF ARTS & SCIENCE
Re-accredited by NAAC with "B++" Grade

Department of Mathematics offers certificate course in



Python

About The Programme

Python is a simple and powerful programming language . It has efficient high-level data structure and an effective approach towards object oriented programming . Python is used in Numerical analysis thermodynamic problems. This course teaches the basics of python which will be useful for students who are going for placement drives in IT fields.

Duration : 30 Hours

Academic Year : 2023-2024

Course starts in December 2023

Course Facilitator : Nisamudeen Ashique PK
Assistant Professor,
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T.K.M College of Arts and Science,

Contact number-9495157428

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Certificate Course on Python 2023-2024 Report

Instructional hours per week: 2

Total hours: 30

Evaluation Method Adopted

The following three assessment methods were adopted.

1. Viva voce based on the topic – 20 marks
2. Practical examination at the end of the course- 50 marks
3. Assignment/Record – 20 marks
4. Attendance (Lecture+Lab) – 10 marks

Grades were awarded on the following basis:

80% and above - A Grade

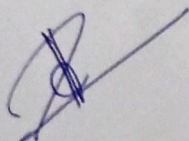
70-79 % - B Grade

60-69 % - C Grade

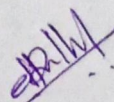
Below 60 % - D Grade

A minimum of C Grade is necessary to provide the Certificate.

The course started on December 12, 2023. 68 students enrolled in the course. The course is provided to third and fifth semester B.Sc. students of the college. Classes were engaged by Prof. Adersh V K, Department of Mathematics, Dr Muhammed Salim Department of Physics, Prof: Safir TK Dept of Physics TKM CAS. Out of 68 students, 66 students passed of which 47 students secured A Grade and 19 secured B Grade.



Course Coordinator



Head of the Department