

Achhruram Memorial College, Jhalda



**Duration: 32
Hours**

Department of Mathematics Certificate Course on Introduction to Python Programming

**Course Coordinator:
Arindam Mukherjee**

**This Course does not require
any programming prerequisite.**

Why Python?

Python consistently ranks as one of the most popular programming languages, and has gained widespread use in the machine learning community.

Module 1: Basics of Python.

- 1.1 Introduction: What is Python? Installing and setting up.
- 1.2 Variables, Data Types (int, float, string), and I/O.
- 1.3 Operators: Arithmetic, Comparison, Logical.
- 1.4 If-else statements and Loops.

Module 2: Data Structures

- 2.1 Lists: Creation, indexing, and modification.
- 2.2 Tuples and Sets: Usage and differences.
- 2.3 Dictionaries: Key-value pairs, accessing, and updating.

Module 3: Functions and File Handling

- 3.1 Functions: Defining, arguments, and return values.
- 3.2 Using built-in (math, random).
- 3.3 File I/O: Reading and writing files, handling CSV.

Module 4: Final Project

- 4.3 Final Project: Write a code to solve a real-life problem.

Course Outcomes:

1. Basic programming concepts and Python syntax.
2. Write simple Python programs.
3. Familiarity with data types, control structures, functions, libraries.
4. Solve basic problems using Python.

**Evaluation:
Final Project and MCQ Exam**

**Certificate on Successful
Completion.**

Venue: Mathematics Computer Lab

Date: Starts on 25th September 2024

**Interested students should
contact the Coordinator for
registration on or before
25th September 2024**

Ph.: 9126601397

Visit: <https://amcollege.ac.in/notice>

**NO
Fees**

For Further Information Contact: 8436044514

Achhruram Memorial College

JHALDA, PURULIA, WEST BENGAL, INDIA, PIN: 723 202

Affiliated to Sidho-Kanho-Birsha University, Purulia

Department of Mathematics

Certificate Course on Introduction to Python Programming

Date: 12/09/2024

Notice

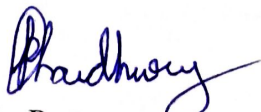
The Department of Mathematics at Achhruram Memorial College is thrilled to announce an upcoming Certificate Course on Introduction to Python Programming. Scheduled to be held from September 25, 2024 to December 04, 2024, this course presents a wonderful opportunity for enhancing skills and expanding knowledge. We invite all interested individuals to take advantage of this opportunity to broaden their academic horizons!

For more details about the course duration, schedule, modules, and enrolment procedures, interested students are encouraged to contact the respective faculty member in the department or the course coordinator as mentioned in the brochure.



(Mr. Arindam Mukherjee)

Course Coordinator



(Mr. Prasanta Choudhury)

HOD, Dept. of Mathematics

PRASANTA CHOUDHURY
HEAD
Department of Mathematics
Achhruram Memorial College
Jhalda, Purulia



(Prof. Arup Kanti Konar)

Principal

PRINCIPAL
ACHHRURAM MEMORIAL COLLEGE
JHALDA, PURULIA
WEST BENGAL

Schedule for Certificate Course on Introduction to Python Programming

| Date | Time | Topic | Resource Person |
|--------|----------------|----------------------------------------------|-----------------|
| Sep 25 | 2:30-4:30 p.m. | Introduction to Computers: Basics & Parts | AM |
| Sep 27 | 2:30-4:30 p.m. | Introduction to Python: Installation & Setup | AM |
| Sep 30 | 2:30-4:30 p.m. | Python Basics: Syntax & Data Types | AM |
| Oct 04 | 2:30-4:30 p.m. | Control Structures: Conditionals & Loops | AM |
| Nov 06 | 2:30-4:30 p.m. | Functions: Definition & Scope | AM |
| Nov 11 | 2:30-4:30 p.m. | Data Structures: Lists | AM |
| Nov 13 | 2:30-4:30 p.m. | Working with Strings & File I/O | AM |
| Nov 18 | 2:30-4:30 p.m. | Error Handling & Exceptions | AM |
| Nov 20 | 2:30-4:30 p.m. | Introduction to Libraries: `math` & `random` | AM |
| Nov 22 | 2:30-4:30 p.m. | Mathematical Problem-solving using Python | AM |
| Nov 25 | 2:30-4:30 p.m. | Basic Project: Building a Simple Program | AM |
| Nov 27 | 2:30-4:30 p.m. | Review & Q&A Session | AM |
| Nov 29 | 2:30-4:30 p.m. | Final Project Work (Guided Session) | AM |
| Dec 02 | 2:30-4:30 p.m. | Final Project Presentations | AM |
| Dec 04 | 2:30-4:30 p.m. | Course Wrap-up & Feedback | AM |