



**ST. ALOYSIUS COLLEGE (AUTONOMOUS)
MANGALURU-575003**

In Collaboration with

Tech Growth
Learning Academy

Dept. of Computer Science, Application & Animation,
Dept. of Post Graduate & Research in Mathematics,
Tech Growth Learning Academy,
SAC Developers Club.

ANYBODY CAN CODE

*Are you ready to embark on an exciting voyage into the
World of Python programming?*

*Whether you're from non-computer background or
someone looking to enhance their coding skills,
our comprehensive course is tailored to take you from a
Noob to a programming maestro!*

Learn Python from Scratch A Practical Guide for Non-Computer Science Students

Enroll now and let the coding magic begin.



Course Duration: 30Hrs
No Prerequisites Required

Fees: ₹2000/-



Course Title: Anybody Can Code: Python Programming Certificate Course

Duration: 30 Hours

Mode of Delivery: Online/Offline/Blended

Target Audience: Beginners with no prior programming experience

Course Objectives:

To introduce basic programming concepts using Python.

To enable participants to write simple and efficient Python programs.

To familiarize participants with problem-solving techniques using Python.

To provide hands-on practice with real-world coding projects.

Syllabus Breakdown (30 Hours)

Module 1: Introduction to Python Programming (6 hours)

Session 1 (2 hours):

Overview of Python

Installing Python and setting up the environment

Writing your first Python program

Session 2 (2 hours):

Understanding variables and data types

Input and output operations

Comments and basic debugging

Session 3 (2 hours):

Arithmetic and logical operations

Typecasting and working with strings

Module 2: Control Structures (6 hours)

Session 4 (2 hours):

Conditional statements: if, else, elif

Introduction to Boolean logic

Session 5 (2 hours):

Looping structures: for and while loops

Break, continue, and pass statements

Session 6 (2 hours):

Writing programs with decision-making and loops

Module 3: Data Structures in Python (6 hours)

Session 7 (2 hours):

Lists: Creation, indexing, slicing, and basic operations

Session 8 (2 hours):

Tuples and dictionaries: Use cases and operations

Session 9 (2 hours):

Sets: Introduction and applications

Iterating through data structures

Module 4: Functions and Modules (6 hours)

Session 10 (2 hours):

Understanding functions: Definition, parameters, and return values

Writing reusable functions

Session 11 (2 hours):

Using built-in modules and libraries

Importing and managing external modules

Session 12 (2 hours):

Writing modular code

Debugging and exception handling

Module 5: Hands-On Projects and Final Assessment (6 hours)

Session 13 (2 hours):

Project 1: Create a basic calculator

Project 2: Develop a simple text-based game

Session 14 (2 hours):

Project 3: Build a data management system using lists and dictionaries

Session 15 (2 hours):

Final assessment: Complete a guided mini-project

Q&A session and feedback

Certification Requirements:

Attend at least 80% of the sessions.

Complete all projects and assignments.

Pass the final assessment.

By the end of this course, participants will have the foundational knowledge and skills to start coding with Python confidently.