

Course: Python Coding 101

Details:

Start date: [Fill in this form and we will update you on our latest slots!](#)

Age range: 11 to 16 years old

Level: Beginner

Lessons: Weekly, 1.5 hours each lesson

Hardware: Laptop or computer

Price: \$190/month

Summary: This course teaches Python coding fundamentals in an interesting way. They will also be using the Turtle module to create graphics and simple animations. By the end of the course, the students would have completed 1 collaborative mini project and 1 individual project presentation.

What you will learn:

- Use fundamental data structures like lists, tuples, and maps
- Organize and reuse your code with functions and modules
- Use control structures like loops and conditional statements
- Draw shapes and patterns with Python's turtle module
- To collaborate and work in teams

Units:

6. Unit 1: Getting Started with Python
 - Lesson 1: Installing Python, Introduction to Python and Google Colab
 - Lesson 2: Greetings (print function, strings, syntax errors)
7. Unit 2: Variables, Lists and Tuples
 - Lesson 3: Variables, F-String function and Types of Values
 - Lesson 4: Lists, Tuples and Maps
 - Lesson 5: Reuse Code with Functions and Modules
 - Lesson 6: Programming Puzzles
8. Unit 3: Arithmetic Operations
 - Lesson 7: Arithmetic Operators in Python
 - Lesson 8: Solving Math Problems
9. Unit 4: Conditional Statements
 - Lesson 9: If-then-Else Statements
 - Lesson 10: Input Function and Programming Puzzles
 - Lesson 11: Elif and While Statements
 - Lesson 12: Collaborative Mini Project - Create a Quiz Game
10. Unit 5: Turtle Module
 - Lesson 13: Creating a Canvas and Movements
 - Lesson 14: Programming Puzzles
 - Lesson 15: Individual Project - Your Own Turtle Animation
 - Lesson 16: Project Submission and Presentation