

**urbancode>**

Training & Solutions



# PYTHON PROGRAMMING FOR KIDS

# About Course

Urbancode's Python Programming for kids, is a beginner friendly course. It opens door to various fields like web development, data science and more. Give your child a valuable skill that will make them future ready as it is widely used in various Industries.

## Primary Aspect

- 45 hrs Instructor-Led Training
- 15+ Projects & Exercises
- 4 Months Duration

## Course Overview:

### What is Python programming for kids?

Python programming is a text-based programming language. It helps kids to understand the fundamentals of coding doing various interactive tasks. It enables children to improve their logical and critical thinking skills.

### Who is this course for?

This course is made for kids aged 13 years and above. It is an introductory course, therefore, students with no prior coding experience, as well as those who know the basics of block-based programming languages, may join this course.

### What will you learn in this course?

You will learn the fundamentals of programming and python, variable and datatypes, operators, function, conditions, exceptions, data structure, loops, object-oriented programming, python modules (Turtle, Tkinter, Pygame etc.) and other libraries. It also includes animation, game development and application development and so on.

# Course Curriculum

## Module 1: Basic Python

- Introduction to Coding and Python Programming
- Variable and Datatype
- String
- Function
- Conditional statement
- Operators

## Module 2: Functions and Modules

- Function
- Exception Handling
- Recursion
- Modules such as Math, Random, Sate and Time

## Module 3: Data Structure

- List
- Tuple
- Dictionary
- Set

## Module 4: Loops with Turtle

- For loop
- While loop
- Nested loop
- Recursion

## Module 5: OOPS

- Class and Object
- Inheritance
- Abstraction
- Polymorphism

## Module 6: Turtle Pygame Module

- Game development with Pygame Module