

# Python 1 Syllabus

## Objectives

This course provides a basic overview of Python and programming principles, using various practical application examples to see results of what you can do with Python. By the end of this course, students will have an understanding of basic programming principles and be able to write basic programs in Python and use programming to make basic Python applications. The objectives of this course include:

- 1) Basic understanding of Python and fundamental programming principles
- 2) Be familiar with Python syntax
- 3) Be able to write Python programs
- 4) Build practical applications using Python
- 5) Finish a personal Python application project for competitions

## Topics and Schedule (Python Basics + Turtle + Minecraft)

	Topic	Assignment Title
0	IDE Setup	Get ready for your Python Adventure
1	Print, Variables, Import, Random	Run your own Powerball lottery
2	Input, Data Types, Python Turtle	Drive your Turtle
3	Conditional	Make your own Math quiz
4	Print, Input, Conditional, Random	Text RPG game
5	While Loop	Quiz and Turtle Advanced
6	Minecraft Hacking	Block Building
7	For loop	Fun with Loops
8	Minecraft RPG game and setBlocks()	MC RPG Game
9	Functions	Intro to Functions
10	Application 1 - MC Parkour	MC Parkour
11	Application 2 - MC Turtle	MC Turtle
12	Application 3 - MC PVP	MC PVP