# O&B ACADEMY

COURSE SYLLABUS

BIGDATA-103

# Python for Data Engineers

# Python for Data Engineers

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| Skill Level | : Beginner |
| Suitable for | : Anyone intending to be a Data Engineer with some programming background, such as through school, basic training courses, or work experience. |
| Duration | : 4 Days |

This course aims to teach students the skills necessary in data engineering to author Python programs. Students will use both the Python standard library as well as common third party libraries using Pip.

## COURSE OUTLINE

### Day 1: Syntax, Data Types & Data Structures

- Variables
- Conditions
- Loops
- Operators
- List Comprehension
- String Interpolation
- Built-in Functions
- Numeric
- Strings
- Lists, Iterators Sets, Dicts and Tuples
- Boolean
- Data Classes
- Dates
- Working Group Formation

### Day 2: Object Oriented Programming

- Classes
- Exceptions

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2

## Day 3: Standard Library & Dependency Management

- Numeric & Math
- Functional Programming
- Files, File Formats & IO
- Crypto
- OS and System
- HTTP Clients
- SQL

## Day 4: Group Work

- Group Work
- Presentations
- Final Exam

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Enquiries

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