**Python Programming (Level 1) Syllabus**

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| **Topic**  | **Outcome**  |
| Introduction (Getting Started)  | What Python is and why is it so popular  |
| Data Structures  | Understanding different data structures available and their use in Python  |
| Functions & Methods  | Familiarizing participants with in-built and user defined functions and the degree of customization available in each  |
| Control Flow  | Understanding statements that modify flow of control in Python - Conditional & Loop Statements  |
| Object-oriented Programming  | Understanding the difference between Function & Object oriented programming and the advantages of the latter  |
| Constructs  | Understanding how construct blocks help in Python programming  |
| Debugging & Error Handling  | Familiarizing participants with the necessary steps of action required, when encountered with an error or a bug  |
| Basic Analytics Packages  | Introducing the most popularly used packages for data analytics  |
| Basic Statistics  | Familiarizing the participants with some basic statistical metrics and how to find them in Python  |
| Visualization  | Introducing some basic visualization packages and commands in Python |