**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 |