PYTHON ESSENTIALS II

Course Agenda

Course duration	20 hours
Class duration	5 hours (including 30 minutes lunch break)
Delivery mode	Classroom/online instructor-led
Number of classes	4
Time of class	10 am – 3 pm
Trainer	Mr. Hudson Mbong

Day	Main Topic	Sub Topic	Duration (hrs)
1	Modules, Packages and PIP	• Importing and using Python modules; using some of the most useful Python standard library modules • Constructing and using Python packages; PIP (Python Installation Package) and how to use it to install and uninstall ready-to-use packages from PyPI.	5
2	Strings, String and List Methods, Exceptions	• Characters, strings and coding standards • Strings vs. lists – similarities and differences • Lists methods • String methods • Python's way of handling runtime errors • Controlling the flow of errors using try and except • Hierarchy of exceptions.	5
3	Object-Oriented Programming	• Basic concepts of object-oriented programming (OOP) • The differences between the procedural and object approaches (motivations and profits) • Classes, objects, properties, and methods • Designing reusable classes and creating objects	5

		• Inheritance and polymorphism • Exceptions as objects.	
4	Miscellaneous	• Generators, iterators and closures • Working with file-system, directory tree and files • Selected Python Standard Library modules (os, datetime, time, and calendar.)	5
Total course duration (hrs)			20