**Course Curriculum**

**Python for Networks**

**Python Basics:-**

1. Introduction to Python :- 40-50 mins.

* Introduction to python
* Advantages and applications of python
* Installing Python and introduction to pip installer.
* First python program “Hello Wold!”

1. Python Data Types: - 1-2 hrs

* Introduction to all Data-types.
* Functions related to Data types.
* Manipulating data types.
* Code illustrating all the data-types

1. Data type Operations: - 2-3hrs.

* Hands-on Session
* Use of In-build data-type operation functions.

1. Looping. 1-1.5hrs.

* For loop
* While loop
* Practice programs to illustrate loops.

1. Conditions 1-1.5hrs.

* If conditions.
* Practice programs to illustrate loops and conditions.

1. Task 1:- (Deployment prospective) GNS3 1hr.

* Executing Various commands on network devices via telnet(GNS3)

1. Task 2:- (Deployment prospective) GNS3 1-1.5hr.

* Bulk configuration changes on multiple network devices over SSH protocol. configuration may include below terminologies. (Using Netmiko python module)

1. Introduction to Python’s NAPALM multivendor network automation library.

GNS3 1-2hrs

(Network Automation and Programmability Abstraction Layer with Multivendor) = NAPALM

* Used Cases.