

SYLLABUS

Module 1: Introduction to python, Variables, List, Tuple & Set, Help Path, Installation of Python, Data types in Python, Operators in Python: Arithmetic, Logic, Relational, Bitwise Operators, Swap two numbers using Single line, Constants, Mapping & Dictionaries in Python, Import statements, Input statements in Python

Module 2: Control statements: Decision Statements: if, if..else, else..if... ladder, Switch, Iteration: While and for loop, Break & Continue. Arrays in Python, Declaration of Array as List in One Dimension and Two-Dimension Array, Functions in Python-With and without arguments, Recursion in Python, Create and Import Python Libraries.

Module 3: Machine learning, Applications, steps in ML, Supervised Learning-Regression, Classification, Unsupervised learning-clustering, association, Reinforcement learning in machine learning.

Module 4: Familiarization of Google Colab, Introduction to Pandas- Data Frame, Series, Data Visualization using Pyplot: Line Chart, Pie Chart and Bar Chart.

Module 5: Supervised Learning Algorithms- Linear Regression, Logistic Regression, Random Forests, Decision Trees, KNN,

