

# Data Analysis with Python

The syllabus for Python in Data Analytics typically covers the following key areas:

## Introduction to Python:

- History and Applications
- Installation and Setup
- Basic Syntax and Data Types
- Variables, Operators, and Control Flow

## Data Structures:

- Lists, Tuples, Sets, and Dictionaries
- Manipulation and Operations

## Functions:

- Defining and Calling Functions
- Arguments and Parameters
- Lambda Functions

## File Handling:

- Reading and Writing Files
- Modules and Packages:
- Importing and Using Modules
- Creating Custom Modules

## Data Analysis Libraries

## NumPy:-

Arrays and Matrices

Mathematical Operations

Data Manipulation

## Pandas:-

- DataFrames and Series
- Data Cleaning and Transformation
- Data Exploration and Analysis
- Handling Missing Values

## Matplotlib and Seaborn:

Data Visualization

Creating Charts and Plots

## Data Storage and Retrieval:

Working with Mysql Databases