

# PYTHON COURSE SYLLABUS

## FUNDAMENTAL

### Input & Output

- Introduction
- Input statement
- Output Statement
- Arithmetic
- Logical
- Relational
- Assignment
- Incre/Decre
- Bitwise
- Identity
- Membership

### Decision Making

- Simple if
- Cascaded if else
- else if ladder
- nested if

### Looping

- for
- while

### Functions & Recursion

- Function call
- Function Definition
- Function Declaration
- Recursion
- Builtin function

String  
File Handling  
Modules

## FUNDAMENTAL

### Class & Objects

- Class
- Objects
- Contructor

### Abstraction

- Abstract Class
- Methods
- Properties

### Inheritance

- Single
- Multiple
- Multilevel
- Hierarchical
- Hybrid

### Encapsulation

- Members
- Methods

### Polymorphism

- With Functions
- With Class Methods
- With Inheritance

### Exception Handling

- try
- except
- raise

## DATA STRUCTURES

### List

- Introduction
- Functions

### Tuples

- Introduction
- Functions

### Dictionary

- Introduction
- Functions

### Set

- Introduction
- Functions

## DATABASE CONNECTIVITY

- Packages
- Database Connectivity
- Applications