



# Digital Lync

EDUCATION - INNOVATION - INCUBATION



# PYTHON

[www.digital-lync.com](http://www.digital-lync.com)

# COURSE CURRICULUM

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## ✔ Module 1 : Introduction

Motivation & Applicability to various domains

Installation & Setting up path

Interactive shells & IDE's

Keywords and Identifiers

## ✔ Module 2 : Variables and Data Types

Numbers

Operators

Reading data from keyboard

String Manipulation

Accessing Strings

Basic Operations

String slices

## ✔ Module 3 : Conditional Statements

If - else

If-elif- else

Nested if-else

## ✔ **Module 4 : Control flow**

For

While

Nested loops

Break

Continue

Pass

## ✔ **Moduel 5 : Lists**

Introduction

Accessing List

Operations

List Comprehension

Function and Methods

## ✔ **Module 6 : Tuple**

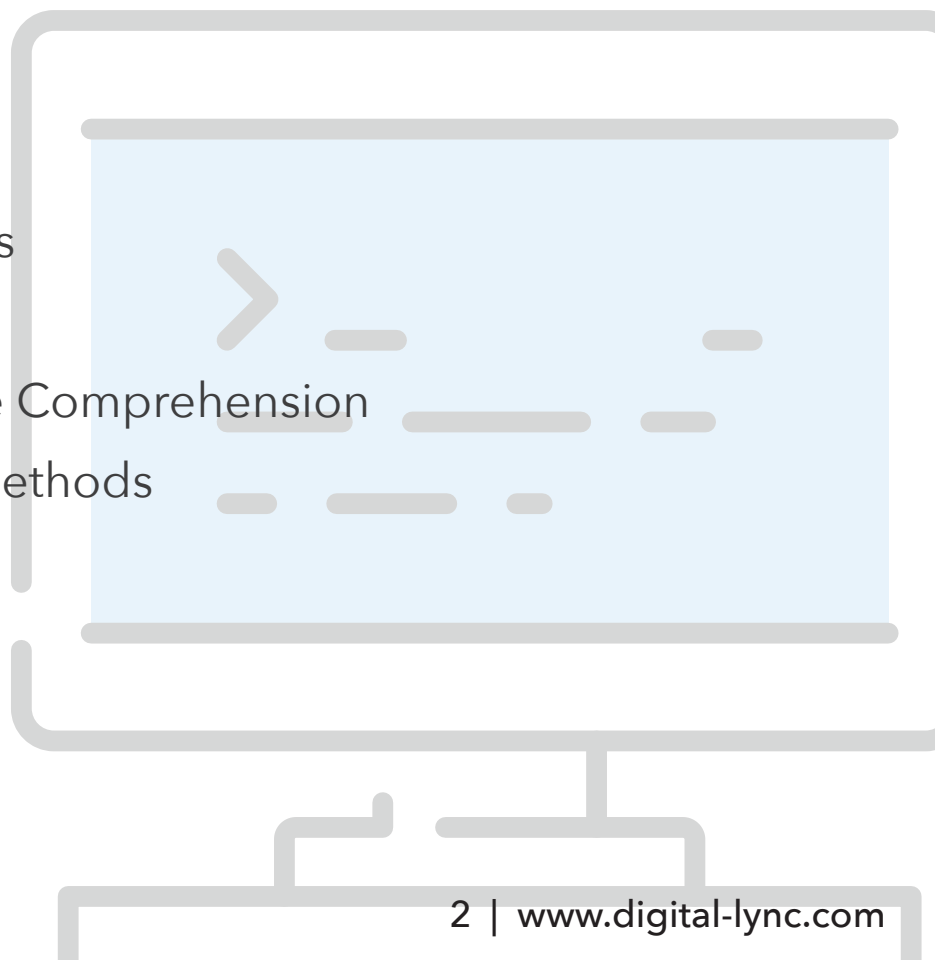
Introduction

Accessing Tuples

Operations

Working & Tuple Comprehension

Functions and Methods



## ✓ **Module 7 : Dictionaries**

Introduction

Accessing values in Dictionaries

Working with Dictionaries

Properties

Functions and Methods

## ✓ **Module 8 : Sets**

Introduction

Accessing values in Sets

Working with Sets

Properties

Functions and Methods

## ✓ **Module 9 : Functions**

Defining a function

Calling a function

Types of functions

Function Arguments

Anonymous functions

Global and local variables

Decorators

## ✓ **Module 10 : Modules**

Importing module

Math module

Random module

Packages

## ✓ **Module 11 : Input and Output**

Output formatting

Files operations

Files Functions

## ✓ **Module 12 : OOPs concept**

Class and objects

types Methods

Attributes

Inheritance

Polymorphism

Data hiding (Abstraction)

Encapsulation

## ✓ **Module 13 : Exception Handling**

Except clause

Try & finally clause

User Defined Exceptions

## ✓ **Module 14 : Database Programming**

Introduction

Connections

Working with queries

## ✓ **Module 15 : Dev Tools**

Intro to Git basics

Virtual Environments

Managing Packages with pip

## ✓ **Module 16 : Regular expressions**

Need & Necessity of RE

Patterns

Matching & Searching

Grouping Operations

Modifiers

## ✓ **Module 17 : Multithreading**

Thread

Starting a thread

Threading module

Synchronising threads

Multithreaded Priority Queue

## ✓ **Module 18 : POC and Project Guidance**



## **HEADQUARTERS**

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