

CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
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TRAINING ON PYTHON

Duration: 6 Weeks

COURSE CONTENTS

Module 1: Introduction to Python

- Overview of language, Features & Installation
- Python Basics: Variable, Data types, Input & Output
- Python Strings & its operations
- Operators & Expressions
- Control Flow
- Data Structures: Lists, Dictionaries, Tuples, Set
- Functions & Modules (List of Built in Functions: lambda, filter, map, sum, max, min, enumerate, reversed, sorted)
- Python Standard Library & Python External Packages
- Object Oriented Programming: Classes, Methods, Inheritance

Module 2: Database Concepts

- Introduction to Database Server, MySQL
- Performing Database Operations
- Python Database Programming

Module 3: GUI

- Overview of GUI frameworks, tkinter
- Event-driven programming

Module 4: Minor Project