

A. Y. Dadabhai Technical Institute, Kosamba

Report

ON
EXPERT LECTURE
BY
Mr. Dhiren Patel,
Trainer,
TOPS Technologies, Surat

26th September 2024



Organized by

Computer Department



A. Y. Dadabhai Technical Institute, Kosamba
Mahuvej Road, At & Po. Kosamba (R.S),
Dist: Surat

Details of Expert Lecture on "PYTHON PROGRAMMING"

Date: September 26, 2024

Time: 12 PM onwards

Venue: A.Y. Dadabhai Technical Institute, Kosamba

Organized by: Computer Department, A.Y. Dadabhai Technical Institute

Speaker: Mr. Dhiren Patel, Trainer, TOPS Technologies, Surat

Introduction

On 26th September 2024, the Computer Engineering Department of A.Y. Dadabhai Technical Institute, Kosamba, organized an expert lecture on "Python Programming" for the 3rd-semester students. The objective of the session was to enhance students' understanding of Python, one of the most popular and versatile programming languages used in various domains such as web development, data science, artificial intelligence, and automation.

Objectives

The main objectives of the session were:

- To introduce students to the fundamentals of Python programming.
- To provide insights into Python's applications in real-world scenarios.
- To motivate students to develop problem-solving skills using Python.

Program Overview

The lecture was designed to cover key aspects of Python programming, including:

1. Introduction to Python:

- Brief history and evolution of Python.
- Why Python is a preferred language in industries and academics.

2. Basic Python Syntax and Structure:

- Data types, variables, and operators.
- Control structures: if-else, loops (for, while), and their practical applications.
- Functions: Defining and using functions for modular programming.

3. Advanced Python Concepts:

- Introduction to data structures: Lists, tuples, dictionaries, and sets.
- File handling in Python.
- Exception handling for writing robust code.

4. Python Libraries and Frameworks:

- An overview of popular libraries like NumPy and Pandas for data analysis.
- Discussion on frameworks like Flask and Django for web development.
- Python's role in machine learning and data science, with a brief introduction to libraries such as TensorFlow and scikit-learn.

5. Hands-on Demonstration:

- Live coding session to solve basic programming problems using Python.
- Step-by-step explanation of code logic, debugging, and optimization.

DATE: 26/09/2024

Expert Lecture on " PYTHON PROGRAMMING "

A.Y. Dadabhai Technical Institute, Kosamba aims to cater the society with skilled manpower and Efficient team members. Institute believes in total improvement of each students. Since 2009 Computer Department of A.Y. Dadabhai Technical Institute has served many scholar students to the society. Today's Era is Computer and Internet Era.

Hence we, at Computer Department planned the Expert Lecture on **PYTHON PROGRAMMING** for 3rd semester students on 26th **September 2024**. We invited **Mr.Dhiren Patel ,Trainer,TOPS Technologies, Surat** to deliver the Useful Information and Make the Students aware about the Different Courses running in tops technologies as well what are the most popular technologies in the world currently. He introduces the basics of all cutting edge technology in the field of Android.

He Discuss the history of Python, its creator (Guido van Rossum), and its rise in popularity. Explain why Python is widely used today, emphasizing its simplicity, readability, and versatility. Discuss the use of variables and common data types like integers, floats, strings, and booleans. Explain `if`, `elif`, and `else` to control the flow of the program based on conditions. Introduce these libraries for handling numerical data and data manipulation in Python. Discuss real-world projects using Python in areas like automation, data analysis, web scraping, and machine learning.

After the detailed presentation, students had the opportunity to ask questions and clarify their doubts. The speaker addressed various queries related to Python's applications in industry, best practices for coding in Python, and how students can enhance their programming skills through projects and certifications.

This Session has opened up many horizons among Student's mind, specifically to choose their Career. . Students were encouraged to practice Python regularly and explore its vast potential in different areas of technology.

Overall the purpose for organizing this Expert Lecture is fulfilled completely. Student had cherished this experience and also showed their interest to attend further workshops in their curriculum. The expert lecture was highly beneficial for the students, providing them with practical knowledge and clear insights into Python programming. the speaker for delivering an informative and engaging lecture

Glimpse of the Seminar

