



**ICT  
ACADEMY  
OF KERALA**



ESSENTIAL SKILL PROGRAM  
**PYTHON  
PROGRAMMING**



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## About the Program

Python is a general-purpose, object-oriented, high-level programming language. This program focuses on the installation of Python, the basic constructs of Python, the basics of databases, and the use of Python in web development. Python has an enormous degree of implicit data structures and these make it attractive for Web Application Development. This program also covers the deployment of a web application.



**LIVE TRAINING**  
(30 HRS.)



**SELF-PACED LEARNING**  
(30 HRS.)



**CAPSTONE PROJECT**  
(45 HRS.)

## Why Skilling?

Skilling programs offer a variety of benefits, including:

- Improving employability and job readiness
- Enhancing knowledge and skills in a specific field
- Increasing earning potential and career advancement opportunities
- Meeting industry demands for skilled workers
- Keeping up with the latest trends and technologies in the field



## Scope of the Program

- Python is ranked number one in the IEEE Spectrum Ranking of Programming Languages in 2020.
- Opportunities in the career of Python are increasing tremendously in the world.
- Whether you work in artificial intelligence or finance or are pursuing a career in web development or data science, Python is one of the most important skills you can learn.
- Job roles advanced in Python with high promising pay in large companies.

## Key Highlights

- Suitable for students, graduates, and working professionals
- LinkedIn Learning / Unstop access for three months
- Internship opportunities for Unstop users
- Add-on program on Cloud Computing Fundamentals
- Employability skills training

## Agenda

- Introduction to Python Programming
- Python Variables
- Data Structures
- Control Structures
- Functions in Python
- Introduction to Web development
- Basics of Database
- Web Application Development and Deployment

## Objectives

- Familiarise with the basics of Python Programming
- Familiarise with Database Concepts
- Develop and deploy Web Applications using Python



Powered by



Knowledge Partner



LinkedIn  
Learning

Program delivery



Internship Partner





## About ICTAK



The ICT Academy of Kerala (ICTAK) is a not-for-profit, public-private partnership (PPP) conceived by the Govt. of India and created by the Govt. of Kerala in partnering with leading industry partners such as TCS, Sowparnika Education Infrastructure, IBS, UST, and Quest Global. The academy empowers students and professionals to reach their digital aspirations through a comprehensive range of programs, from fundamental computer literacy to cutting-edge software engineering. As the leading provider of skilled workforce in the industry, ICTAK has an impressive track record with over 5,000 successful placements since its establishment. In 2023 October the ICT Academy of Kerala was recognized as a Total Solution Provider by the Dept. of Electronics & IT, Govt. of Kerala.

## PYTHON PROGRAMMING

### Eligibility

- The following shall be eligible to join the course;
- Engineering or science graduates / three-year diploma holders in any engineering branches, final year/pre-final year students of these courses, having a foundation level knowledge (plus two equivalent) in Mathematics and Computer fundamental skills.
- Students who have completed their graduation but are awaiting the final results can also apply.

*\*Please note that the ICT Academy of Kerala will have the right to cancel the candidature at any point if found ineligible.*



**INFORMATION &  
COMMUNICATION TECHNOLOGY  
ACADEMY OF KERALA**  
**ICTAK**

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