

Python Programming Certification

Introduction

This certification is designed to learn the basics of python programming. Python is a general-purpose, dynamic, high level and interpreted programming language. It supports Object Oriented programming approach to develop applications. It is simple and easy to learn and provides lots of high-level data structures. By this certification, students will be able to develop complete web applications using python libraries and Django Framework. Python programmers are highly paid in IT industry and python applications are highly demanding on freelancing platforms. It is beneficial for students who have completed intermediate in computers and have basic programming skills.

Learning Outcomes

After the completion of this certification, students would be able to:

- Develop complete web application using python
- Work with Django Framework
- Python applications

Curriculum

Week	Lecture	Topics
1	1	Introduction to Python Programming
2	2	Installation of Python, Python Basics
3	3	Python Syntax, Variables, Operators, Datatypes
4	4	If-Else, Switch, Loops, Arrays, Functions
5	5	Python OOP and Classes
6	6	Python Built in and Lambda Functions
7	7	Python Libraries
8	8	Python Files I/O
9	9	Python Modules

10	10	Python Exceptions
11	11	Mid Term Presentation
12	12	Python Regex, Sending Email
13	13	Python Asserts, Python Ide's
14	14	Web Scrapping Using Python, Mongoddb
15	15	Python Math Module, OS Module and Statistics Module
16	16	Django Framework in Python
17	17	Django Setup, Django Interface
18	18	Django App and MVT, Django Model and View
19	19	Django Forms, Cookies, File Upload and Working With Database
20	20	Django Middleware and Django Exceptions
21	21	File Handling in Django, PDF and CSV Output
22	22	Django and Bootstrap
23	23	Final Project Presentations
24	24	

Benefits of Certification

- To develop web applications using python
- Understanding of python programming
- Working with Django Framework

Entry Requirements

- Intermediate/O/A-level
- Basic Programming Skills
- Basic Computer Skills

Mode of Classes:

- Online
- On-campus

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