



SCHOOL OF INFORMATION TECHNOLOGIES

Python Django Framework Training

Pre-requisites

Trainees should have knowledge of C, C++, or any Programming Language and for frontend HTML, CSS and JavaScript.

Python Concept – 10 hrs

- Basic with installation
- Fundamental programming concepts
- Naming Convention
- Conditionals
- Iteration
- Strings
- Lists
- Dictionaries
- Tuples
- Function
- Files
- Exception Handling
- Class and Object
- Inheritance
- Polymorphism
- Access specifier
- Encapsulation

Django- 25hrs

- What is Framework?
- What is Django?
- Django installation
- MVT(Model View Template)
- Django requirement
- Django project directory
- Run and stop server
- Creating a View
- Http request and Http response
- Url dispatcher
- Template and how to render template file
- Django template language
- static file inside project
- Cookies
- ORM(Object relational mapper)
- Database setup
- Models
- model relationship in django
- Writing code to get db data in views
- Django Admin panel configuration
- Forms
- Form field argument
- Form widget in Django
- Implementation of get ,post, put, delete
- Use csrf token
- Validation in Django
- Built in and custom validator
- styling Django form
- Save update and delete form data from database in Django
- Model Form
- Authentication and Authorization
- Signals in Django

- Middle ware in Django
- Q object in Django
- pagination in Django
- Django security
- Deploying Django
- Integrating with Legacy Databases and Applications
- Introduction to REST API
- Introduction to algorithm implementation

Django Project

- Create web application using Django Framework

Other Training Information

Course Duration: 35 Hours

Class per Day: 1:00 to 1.5 hrs.

Note:

- Students must complete all assigned task and per provided into course structure
- All students should submit **one project** after completion of course.