

# **FULL TIME FULL STACK COURSE**

**Duration: 8 hrs / Day | 3 Months | 576 hrs**

## **Major Modules**

1. Introduction
2. Basics of Python
  - a. Data Types, Variables & Operators
  - b. Conditional Statements
  - c. Loops
  - d. Functions
3. Advanced Python
  - a. Classes and Objects
  - b. Libraries
4. Web Development with Python
  - a. HTML
  - b. CSS
  - c. JS
  - d. JQuery
  - e. Django installation and setup
  - f. Django basics
    - i. Urls
    - ii. Models
    - iii. Views
    - iv. Templates

- g. First Django App
- h. Database Connectivity
  - i. Basics of SQL
  - ii. SQL Commands
  - iii. Django with SQLite DB
  - iv. Model migration
  - v. Introduction to postgresql
  - vi. Django with postgresql
- i. REST API
  - i. Request-Response
  - ii. django-rest-framework
- j. Bootstrap
- k. ReactJS
  - i. Introduction
  - ii. Node package manager (npm)
  - iii. React app
  - iv. Connectivity with Django
- 5. Versioning Control
  - a. Github Basics (Web)
    - i. Repository setup
    - ii. Branch management
    - iii. Issues
    - iv. Pull Requests
  - b. Git Basics (Command-line)
    - i. Stage
    - ii. Commit
    - iii. Pull
    - iv. Push
    - v. Fetch
- 6. Application Management
  - a. SDLC (Software Development Lifecycle)

b. JIRA

- i. Agile methodology
- ii. Project Board
- iii. Backlogs
- iv. Types of Issues/Tasks
- v. Issue Tracker

7. Application Environments

- a. Development Env
- b. Testing Env
- c. Staging/UAT Env
- d. Production Env

8. Application Deployment

- a. Docker
- b. Jenkins