



Full Stack Development with Django (Python)

Course Duration: 150 Days

SNO	MODULE NAME	TOPIC
1	Basic Understanding of programming	 What is programming language (types, uses) Full stack development process Github Stack overflow Linux + Windows (Basic Commands, setup, installation of software's) IDE
2	Core Python	 Introduction to python (history, applications, use) Installation & setup of Python Basic syntax of python Keywords Variables Literals Operators Datatypes Reading inputs from console Conditional Statements Looping Statements Comprehension Function (lambda function, map, filter, reduce, recursion) File handling Modules & Packages OOPs Exception Handling Regular expression Mostly uses modules (random, math, datetime, time etc.) GUI Programming (Tkinter) 21. 2 Project
3	SDLC	 Agile Scrum Team Work Git



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4 1. SQL basics **Database**

2. DML, DDL & DQL

3. DDL: create, alter, drop

4. SQL constraints:

5. Not null, unique,

6. Primary & foreign key, composite key

7. DML: insert, update, delete and merge

8. DQL : select

9. Select distinct

10. SQL where

11. SQL operators

12. SQL like

13. SQL order by

14. SQL joins

15. Mysql functions

16. Concat

17. Max, min, sum

18. Avg, count, abs

19. Date functions

20. Curtime

21. Now

5 1. Revision of core python **Data Structure**

2. Data structure

3. Linked List

4. Stack

5. Queue

6. Tree

6 1. Introduction to frontend User interface or

Frontend

2. HTML-5

3. CSS-3

4. JS

5. JQuery

6. Bootstrap

7. ReactJS



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7	Backend (Django)	 Introduction to Django Installation, setup, creating project Administration panel Creating views URL mapping Django Template language(if/else, loops, comments, filters) Models Django Forms Page redirection Sending Emails File uploading Integration Bootstrap with Django Session and Cookies Database connectivity with Django REST API
8	Deployment	 Introduction to cloud Types of cloud Deployment on cloud