



TECHHUB SOLUTIONS

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Python with Django

Main Topic	Sub Topic
Installing Python and Setting up the Development Environment	Downloading Python and Installing Setting up path Introduction to different IDE and Editors for Python
Basic Programs Handling Data Type	Running python Python identifier, keywords, comments, etc Variable, Standard Data Types Python numbers, strings, operators
Conditional Statement, Looping, Control Statement	If...else Statement elif Statement Nested if-else While Loop, For Loop Nested loops Break & Continue Statement Pass
String Manipulation	Strings indexing and splitting String Operators Python Formatting operator Built-in String functions
Python Data Structure	List Tuple Dictionary Sequence Set
Functions in python	Defining a Function & Calling Passing by Reference Vs Passing by Value Global vs. Local variables Default argument, keyword argument and Variable-length arguments Lambda Expressions
Exceptions	What is Exception Handling an Exception The except Clause with Multiple Exceptions The try-finally Clause User-Defined Exceptions

Files I/O	Handling different types of file Opening a text file and a binary file Different modes of opening a file Reading and writing to a file Operations using file-handling
Object and Classes in Python	Introduction to the concepts of OOP Declaration of a class Basic properties, constructor self, super keywords Creating an object of a class Importing a custom class Programs involving classes Iterators Generators
Django Introduction & Admin Interface	How to get & install Django Starting the Admin Interface Migrations
Views Layer	Simple View Basic view(displaying hello world) Functional views, class-based views
Django – URL Mapping	Organizing Your URLs Role of URLs in Django Working URLs Forms Sending Parameters to Views Templates layer The Render Function
Django Template Language (DTL)	Role of template layer in Django Filters, Tags, Tag if, Tag for, Block and Extend Tags Comment Tag, Usage of templates Extending base template
Django – Models	Creating a Model Manipulating Data (CRUD) Linking Models Django – Page Redirection
Django – Sending E-mails	Sending a Simple E-mail Sending Multiple Mails with send_mass_mail Sending HTML E-mail Sending HTML E-mail with Attachments

Django – Form Processing	Using Form in a View Usage of forms Crud operations using forms Crispy forms in django
Django – File Uploading	Uploading an Image Django – Apache Setup
Django – Cookies Handling	Django – Sessions Django – Comments
Django Admin	Creating Super User Using admin in Django Adding models to admin Adding model objects using admin Displaying in cmd using query sets
Static files	Loading CSS files into templates Loading js files into templates Uploading image using models User authentication