



MODULE 1: Overview of the Mobile Industry

Overview of the Mobile Industry Developer
Opportunities, successful Apps

MODULE 2: Computer Literacy Skills

Research on Internet/Search Skills
Copy, Cut, Paste, Save, Saves as ... Short cuts

MODULE 3: Front End Web Development

Intro to HTML5
HTML Element& Attributes
HTML Forms (input, select, label,Attribute)
CSS- External CSS

Bootstrap5(grid, carousel, navigation, header, margin and padding)

MODULE 4: Git and GitHub

Pushing code to your GitHub account Cloning
and merging Branch in GitHubWorking with
GitHub commands

MODULE 5: Python and Database (MYSQL, SQLite)

Python Syntax,
Python Variables
Python Data Types

Python Operators If...elif, Loops Python
Break, continue
Python Data structure (List, Tuple, set, Dict)

Python input output
Python Modules
Python Functions
Exception Handling
Package Installation
Python Object Oriented Programming
Python Inheritance concept
Python Encapsulation
Python Polymorphism

Getting Started with Django

Introduction to Web Development

What is web development?
Client-server architecture
Introduction to Django
Setting Up the Development Environment

Installing Python and Django
Creating a virtual environment
Creating Your First Django Project

Creating a new Django project
Understanding project structure
Starting the development server

Week 2: Building a Simple Django App

Creating Django Apps

What are Django apps? Creating
your first app Configuring apps
in a project Models and
Databases

Defining models
Creating database tables (migrations)
Performing basic database operations
Week 3: Building Views and Templates

Views and URL Patterns

Creating views
Mapping URLs to views
URL patterns and routing Templates
and Template Language

Creating HTML templates Using
template tags and filters
Rendering dynamic data in templatesWeek
4: Forms and User Input

Working with Forms

Creating HTML forms
Django Form classes
Handling form submissions
User Authentication

Setting up user authentication
User registration and login User
authentication decorators
Week 5: Working with Databases

Querying the Database

Performing database queries with Django ORMFiltering
and sorting data
Aggregating data
Admin Panel

Setting up the Django admin panel Managing
data through the admin interface