

1.	INTRODUCTION (Hour 1)
	<ul> <li>Overview of Python</li> <li>Why &amp; What is Python?</li> <li>Python Interpreter &amp; Editor tools usage &amp; pip usage</li> <li>Work Flow of Python</li> </ul>
2.	BASIC SYNTAX & VARIABLES - (Hour 2- 4)
	<ul><li>□ Basic Syntax</li><li>□ Variable types / Literals</li><li>□ Keywords</li><li>□ Operators</li></ul>
3.	CONDITIONAL & LOOPING STATEMENTS - (Hour 5-6)
	<ul> <li>□ IF, Nested If &amp; Ternary conditions</li> <li>□ For loop</li> <li>□ While loop</li> <li>□ break, continue and pass</li> </ul>
4.	DATA TYPES/STRUCTURES - (Hour 7-10)
	<ul> <li>□ Arrays</li> <li>□ Numbers</li> <li>□ Strings</li> <li>□ List</li> <li>□ Tuple</li> <li>□ Dictionary</li> <li>□ Set</li> </ul>
5.	EXCEPTION HANDLING - (Hour 11)
	<ul><li>☐ Try/ Except/ Finally/ Else</li><li>☐ Raise &amp; Custom Exceptions</li></ul>

6.	FUNCTIONAL PROGRAMMING - (Hour 12 - 14)	
	<ul> <li>☐ Introduction to using functions</li> <li>☐ Writing functions</li> <li>☐ More on functions</li> <li>☐ Global variables &amp; Local Variables</li> <li>☐ Arguments types</li> <li>☐ Documenting functions and modules</li> <li>☐ Functions based Decorators</li> </ul>	
<b>7</b> .	FILE HANDLING - (Hour 15)	
	<ul> <li>Introduction to file handling</li> <li>Opening and reading a file</li> <li>Opening and writing text to a text file , CSV, JSON</li> <li>Appending to a text file</li> <li>The "with" statement</li> </ul>	
8.	MAGICAL FUNCTIONS/ LIBRARIES: - (Hour 16 - 17)	
	<ul> <li>□ About Generators, Comphrensions</li> <li>□ Lambda, Filter, Map, Reduce &amp; Other Built-ins</li> <li>□ Collections, Itertools, Functools</li> </ul>	
9.	OBJECT ORIENTED (OOPS) - (Hour 18 -23)	
	<ul> <li>□ About OOP</li> <li>□ Class &amp; Objects</li> <li>□ Understanding self</li> <li>□ Inheritance &amp; Types</li> <li>□ Abstraction</li> <li>□ Polymorphism</li> <li>□ Overloading</li> <li>□ Overriding</li> <li>□ Encapsulation &amp; Access Specifiers</li> <li>□ Solid Principles</li> </ul>	
10. PYTHON REGULAR EXPRESSIONS - (Hour 24-25)		
	<ul> <li>What is Regular Expressions</li> <li>Regex Expressions/ Symbols</li> <li>re.match(), re.search(), re.findall(), re.split(), re.sub()</li> <li>Passing in Modifier Flags</li> </ul>	

11. THREADS, PROCESS, ASYNCRONOUS - (Hour 26-30)
<ul> <li>Understanding Concurrency &amp; Parallelism</li> <li>Threads vs Processes</li> <li>Thread</li> <li>Synchronization</li> <li>Thread Pool</li> <li>Process</li> <li>Synchronization</li> <li>Communication</li> <li>Process Pool</li> <li>Asynchronous Programming (Asyncio)</li> <li>Introduction to Asyncio</li> <li>Coroutines and await</li> <li>Task Management in Asyncio</li> <li>Async I/O Operations</li> </ul>
12 Create & Deploy Simple Django Project - (Hour 31-40)
<ul> <li>□ Project Setup</li> <li>□ Explain Poetry (VENV, build)</li> <li>□ Project Creation with Django</li> <li>□ Explain Django Attributes &amp; Terminologies</li> <li>□ Create Login &amp; Sign-Up Registration</li> <li>□ Create Views</li> <li>□ Create Models(ORM)</li> <li>□ Complete Full Functionality</li> <li>□ Create Unittest cases</li> <li>□ Create CI/CD Pipeline using GitHub Workflow</li> <li>□ Build and Deploy using GitHub Workflow.</li> </ul>
13. Additional Bonus - (Hour 41-43)    Extra Q&A Sessions   Career Guidance   Full Stack Roadmap   Explore Other Python Libraries (Datetime, Logging, Requests, Click)