



## **ADVANCE PYTHON PROGRAMMING COURSE OUTLINE**

<b>Week</b>	<b>Class No.</b>	<b>Topics</b>	<b>Activities/Tools</b>
<b>Week 1</b>	1	Python Review (Variables, Loops, Functions)	Coding Practice
	2	Object-Oriented Programming	Class Demo
	3	File Handling & Error Management	Exercises
<b>Week 2</b>	4	Working with APIs	Project: API Calls
	5	JSON Parsing & Web Data	Hands-on
	6	Project 1: Weather App using API	Build Task
<b>Week 3</b>	7	Data Analysis with Pandas	Jupyter Notebook
	8	NumPy for Arrays	Array Practice
	9	Matplotlib & Seaborn	Graphing Activity
<b>Week 4</b>	10	Web Scraping with Beautiful Soup	Live Scrape
	11	Automation with Python	Practice
	12	Project 2: Data Dashboard	Group Work
<b>Week 5</b>	13	Tkinter GUI Development	App Interface
	14	Intro to Django	Demo App
	15	Capstone Quiz	Summary Test
<b>Week 6</b>	16	Freelance Platforms	Profile Review

		for Python Developers	
	17	Final Project Work	Portfolio Upload
	18	Presentations & Certificates	Evaluation

VIPER ACADEMY