INTRO TO PYTHON FOR DATA SCIENCE COURSE SCHEDULE

WEEK	COVERAGE	BREAKDOWN
WEEK 1	Introduction to python and installation of python and other necessary tools.	- Basic programming terms - Brief introduction of python and its interpreter - Areas of application of python programming language - Installation of necessary tools - First python code
WEEK 2	Python variables, types, operators and operations.	- Python syntax - Variable assignment - Simple operation - DataTypes and types conversion - Intro and usage of popular python functions - Assignment
WEEK 3	Conditional and control structures	- Use of IF/ELSE/ELIF statements - For/while loop statement - Assignment
WEEK 4	Python data structures	- List and list operations (creating, replace, slicing, delete, list of list) - Dictionary and common operations - Assignment
WEEK 5	Python functions and methods	- Function declearation and calling - Return statement - Function arguments - String methods - Integer methods - Assignment

WEEK 6	Python Class/packages/modules	- Brief introduction OOP - Brief introduction to python class - Importation of modules - Intro to Database mgt (MySql) - Assignment
WEEK 7	Python Libraries - NumPy	- Intro to Data Science - Numpy arrays 2D Numpy arrays - Numpy basic statistics - Assignment - Project
WEEK 8	Python Libraries – Matplotlib	- Data visualization - Basic statistics visualization with matplotlib - Project