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Section 1: Python programming

Unit 1: Python Basics

1. Python Syntax
2. Features of Python
3. Variables
4. Operators
5. Basic input output statements
6. Keywords

Unit 2: Python Data Structures

1. Numbers: int, float, complex
2. Strings
3. List
4. Tuple
5. Dictionary
6. Set

Unit 3: Control-flow statements

1. Decision making with if conditions
2. if-elif-else
3. for loop
4. while loop
5. break and continue
6. for else loop
7. Comprehensions

Unit 4: Functional programming

1. Introduction to functions
2. Namespaces and scope
3. return keyword
4. Parameters and positional arguments
5. lambda function
6. map, filter and reduce

Unit 5: Exception handling

1. Errors and exceptions
2. Handling exceptions with: try, except, else and finally

3. Causing exceptions: raise and assert
4. Create your own exception
5. Logging
6. Logging levels and configuration

Unit 6: File handling

1. Introduction to files
2. File objects and modes
3. Opening and closing files
4. Read and write operations
5. Context manager – with

Unit 7: Working with directories

1. Directories and file path
2. os module
3. Making, changing and deleting directories
4. Listing directory and navigating file systems

Unit 8: Regular expressions

1. Introduction to re module
2. Special characters for pattern making
3. re functions and flags
4. String matching and pattern filtering
5. Greedy and non-greedy match
6. Simple character matches
7. Special characters
8. Data extraction

Unit 9: Classes and Objects

1. Object oriented programming
2. What are classes?
3. Understanding __init__ and self
4. Instance and class variables
5. Inheritance
6. Overriding rules
7. Method overloading
8. Operator Overloading

Unit 10: Database connectivity

1. Basics of SQL
2. Connecting to a database
3. Retrieving data
4. Inserting, updating and deleting data
5. Using Python libraries for database access – PyMySQL

Unit 11: NumPy and Pandas

1. Introduction to NumPy
2. Array data structure
3. Array operations and indexing
4. Pandas DataFrame operations
5. Data cleaning and manipulation with Pandas

About the trainer

Carrying an experience of over 10 years, I pride myself for experiential learning approach. A training path that consists of visual learning, hands-on learning, project work, periodic assessments and mentorship. With us, you can be sure about getting the knowledge, certificate and placement.

■ *Ram Kumar*

- ✓ **University: UVCE, Bangalore**
- ✓ 100+ Corporate Batches
- ✓ Python Certified Processional
- ✓ Certified Kubernetes Administrator

- ✓ **Last Employer: Amazon, India**
- ✓ 3000+ Students
- ✓ AWS Certified Cloud Architect
- ✓ AWS Certified Machine Learning

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