**CHAKRAITSOLUTIONS**

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**JNTU KUKATPALLY**

**Python Course Content**

**I. Introduction**

* **Why Python?**
* [**Pre-requisites**](https://nareshit.in/python-training/#What_are_the_Python_Course_Pre-requisites) **to learn Python**
* **Who should do the course**
* [**Course**](https://nareshit.in/python-training/#Objectives_of_the_Course) **Objective**
* **Course Duration**

**II.Basic Python**

* **Python History**
* **Python Features**
* **Python Environments setup.**
* **IDE setup (Anaconda/Pychamp)**
* **Python Variable types.& Identifiers**
  + - * Numbers
      * Strings
      * List
      * Tuple
      * Dictionary
      * Sets, Etc.
* **Python Operators**
  + - * Arithmetic Operators
      * Comparison Operators
      * Assignment Operators
      * Bitwise Operators
      * Logical Operators
      * Identity Operators
      * Membership Operators.
* **Python Conditional/Decision making**
  + - * if
      * if-- else
      * if--elif
      * if--elif—else
      * Nested if conditions
* **Python Loops.**
  + - * While
      * For
      * Nested loops
      * Break, Pass, Continue etc.
* **Data Type Conversions**
  + - * Numeric to string
      * Strings to numeric
      * List to tuple
      * Tuple to list
      * And all other possible conversions
* **Functions**
  + - * Function definition
      * Function Objects
      * Function Callings
      * Arguments passing to Function
      * Returning value from function
      * \*args& \*\*kwargs
      * Anonymous Function & others -
      * Lambda
      * Map
      * Filter
      * Reduce, etc.

**III. Advance Python**

* **Python Modules**
* **File Handling**
* **Exception handling**
  + - * Default Exception Handler
      * Catching Exceptions
      * Raise an exception
      * User define exceptions
* **Database handling (Oracle and MY SQL)**
  + - * Connecting with Database.
      * Database Operations
      * Database Connection
      * Create Database
      * Working on DML and DDL statements.
* **OOPs Concepts**
  + - * Classes
      * Objects / Instances
      * methods &method calls
      * Inheritance
      * Encapsulation/Abstraction/Data or Method hiding
      * Polymorphism
      * Operator Overloading
      * Method Overloading
      * Method Overriding
* **Other Topics on Python**
  + - * Decorators for method and class
      * Generators
      * Iterators
      * Duck Typing
      * Monkey Patching in Python
      * Shallow copy and deep copy
      * Mail sending from Python
      * Other important concepts in python
* **Multi-threading and Multiprocessing**
  + - * Introduction to Threads in python
      * Multithreading
      * Multiprocessing
* **Python packages** 
  + - * Pandas
      * Numpy
      * Matplotlib/Seaborn
      * Time
      * Calendar
      * Scipy
      * Sklearn.
      * And other important packages

**IV. Highlights**

* **Introduction for Data Science and Machine learning**
* **Introduction on Web development/Django with python scripts**
* **Daily Practice with topic level exercises**
* **Mini Project**
* **Provide Python material (PPTs and Topic wise codes)**
* **Sessions on Interview questions.**
* **Sessions on resume preparatio****n.**
* **Mock interviews and job assistance.**