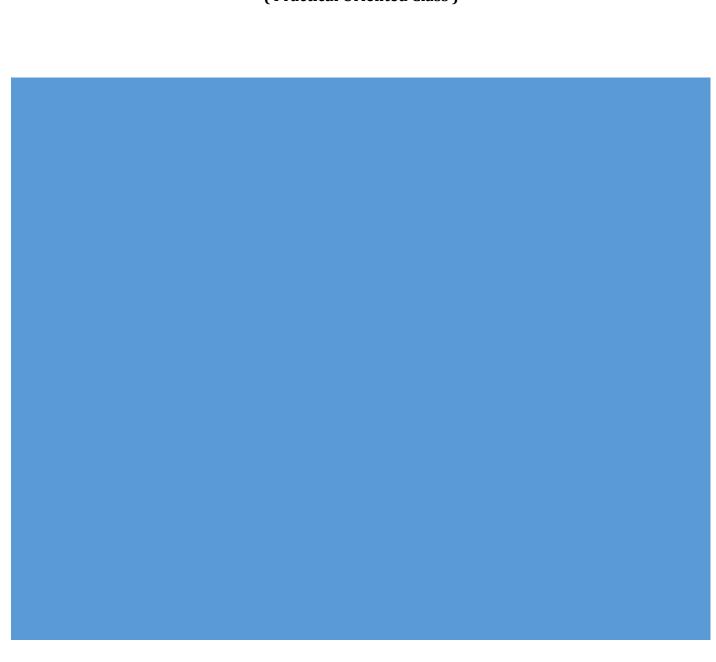# PYTHON SYLLABUS
RIDHUN DEV

(Practical Oriented Class)

Python

What…, Who.., Why.., When.., Where...

Python Language (Practical Oriented class)

- Python syntax
    1. Indentation
    2. Commenting
    3. Variables
    4. Multi-line Statement
    5. Printing
- Software and IDEs
    1. Python Best Version Selection
    2. Installation Steps
    3. Activate python
    4. Installation of PyCharm IDE
    5. Venv activation Steps
- Variable
- Identifiers
- DataType
- Python Expressions
- First Professional Python Program & Run
- Declaration statements & Definition statements
- Control statements
- Decision making statements
    1. if
    2. if else
    3. elif
    4. Nested if
- Looping statements
    1. While loop
    2. For loop
    3. Nested For
- Jump statements
    1. Break
    2. Continue
- List
    1. What is List
    2. For loop in List
    3. List Operations
- Tuples
    1. What is Tuples
    2. For loop in Tuples
    3. Tuples Operations
- Difference between List and Tuples

- ¬ String Manipulation
    1. Creating / Accessing strings
    2. Slicing Operation
    3. Revers a String (slicing)
    4. Positive indexing
    5. Negative indexing
- ¬ Modules
    1. Built in module
    2. User defined module
    3. External module (pip)
    4. Package
    5. PIP
- ¬ Class
- ¬ Object
- ¬ Class and Object
    1. OOP Concept
    2. Class , Class Concept / Object, Object Concept
    3. Create class module and import
    4. Data Abstraction
    5. Data Encapsulation
    6. Polymorphism
    7. Inheritance