 PYTHON-PROGRAMMING (SYLLABUS)

**Duration: 40 Hrs**

**Course Fee: Rs. 9,500/- G-Pay : 98940 83890**

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| **Days** | **Python Syllabus** | **Remarks** |
| **Day - 1** | **Introduction to Python** |  |
| **Day - 2** | **Environment setup (software installation). how to open Python-shell mode,source mode simple program save and run** |  |
| **Day - 3** | **building blocks of python.  \* variables?  \* comment line  \* print statement,escape sequence, end, separator, %,doc string, type,id** |  |
| **Day - 4** | **\* datatypes?  \* operator?** |  |
| **Day - 5** | **\* data structure: list,tuple,set,dict (basic)** |  |
| **Day - 6** | **\* slicing** |  |
| **Day – 7,8** | **How to get value at Run time? - Conditional Branching control statements: simple if, if else, if elif, nested if** |  |
| **Day – 9** | **errors (name,type,value,indent,zerodivision, key,attribute,index,syntax)** |  |
| **Day – 10,11,12** | **Conditional looping control statements: while, for** |  |
| **Day – 13,14** | **nested loop.** |  |
| **Day – 15** | **jumping statement(pass,continue,break)** |  |
| **Day – 16** | **Built in functions -  String functions,math function,random function** |  |
| **Day – 17** | **data structure: list,tuple,set,dict  (advanced-inbuilt function)** |  |
| **Day – 18,19** | **Functions- user define function - 4 types - Functions-Recursion, global variable** |  |
| **Day – 20,21** | **Functions- variable length Arguments-Default, Keyword, Arbitrary - Lambda function- (basic lambda, lambda with filter, lambda with map)** |  |
| **Day – 23** | **Modules and Package-User program as modules and Packages. - Files-Different types of files-File operation.** |  |
| **Day – 24** | **Errors and Exceptions Handling-Errors. Assert, Try, except, Finally - Exceptions Try, Finally, User defined exception.** |  |
| **Day – 25** | **Object Oriented Programming-Class, Object,** |  |
| **Day – 26** | **user defined function(object return),** |  |
| **Day – 27** | **constructor,destructor** |  |
| **Day – 28** | **Inheritance, and Polymorphism** |  |
| **Day – 29,30** | **Reference Types- Iterator, Generator. - Reference Types -Closure, Decorators.** |  |
| **Day – 31** | **Thread-Multithread.** |  |
| **Day – 32** | **Graphical User Interface-Textbox, Listbox** |  |
| **Day – 33** | **Button,Image,Option Button, Menu, Canvas.** |  |
| **Day – 34** | **mysql installation + basic query** |  |
| **Day – 35** | **database connectivity - insert** |  |
| **Day – 36** | **database connectivity -search** |  |
| **Day – 37** | **database connectivity-delete,update** |  |
| **Day – 38,39,40** | **Project - mini** |  |