Course Name	:	Python Level 1Level-1
Course Code	:	ADD-CS-05
Training Firm	:	Santhisoft Technologies

Syllabus

#	Topics
1	Introduction to programming Language, Levels of programming Language, High Level Language, Examples of High Level Language, Future of python
2	Introduction to Python, Features of Python, Advantages of Python, Installation of Python, How to install Python in windows, How to execute Python Program using google colab.
3	Python Identifier, Comments in Python, Python Variable Types, Mechanism for assigning values to variables. Exercise using values assigning to variables.
4	Types of Operators, Arithmetic Operators, Comparison (Relational) Operators, Assignment Operators, Logical Operators.
5	Bitwise Operators, Membership Operators, Identity Operators. Simple exercise using different types of operators.
6	Python Decision Making statements, using If, Elif, Else, Short Hand If, Short Hand If ... Else, Nested If . With examples
7	Python loop statement, while loop, for loop, nested loop ,Loop Control Statements, Break, continue, pass Statements with examples
8	Python – Numbers, Number Type Conversion, Mathematical Functions, Random Number Functions, Trigonometric Functions, Mathematical Constants
9	Python - Strings, Accessing Values in Strings, Updating Strings, Escape Characters, String Special Operators, String Formatting Operator, Built-in String Methods
10	Python - Lists, Accessing Values in Lists, Updating Lists, Delete List Elements, Basic List Operations, Indexing, Slicing, and Matrixes, Built-in List Functions & Methods
11	Python - Tuples, Accessing Values in Tuples, Updating Tuples, Delete Tuple Elements, Basic Tuples Operations, Indexing, Slicing, and Matrixes, Built-in Tuple Functions
12	Python - Dictionary, Accessing Values in Dictionary, Updating Dictionary, Delete Dictionary Elements, Properties of Dictionary Keys, Built-in Dictionary Functions & Methods
13	Python - Date & Time, What is Tick, Time Tuple, Getting current time, getting formatted time, getting calendar for a month, the time Module, The calendar Module
14	Python - Functions, Defining a Function, Calling a Function, Pass by reference vs value, Function Arguments, Required arguments, Keyword arguments, Default arguments, Variable-length arguments, The return Statement, Scope of Variables, Global vs. Local variables
15	Python - Modules, The import Statement, The from...import Statement, The from...import * Statement, Packages in Python
16	Python - Files I/O, Printing to the Screen, Reading Keyboard Input, The raw_input Function, The input Function.