



TECNIA INSTITUTE OF ADVANCED STUDIES
NAAC ACCREDITED GRADE "A" INSTITUTE
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Recognized Under Sec. 2(f) of UGC Act 1956
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TIAS/ACI2020-21/30

Date: 30/06/2021

Course Completion Certificate

This is to certify that the course module for Value Added Course for the Certificate Course in Python scheduled from 12/6/21 to 29/6/21, comprising of 30 Hours deliverance has been completed by the resource person Ms. Ambooj with the module contents as under:-

S.No.	Contents Deliverance	Learning Outcomes
1	Introduction to Python (1 Hr)	Understand the fundamentals of programming concepts, such as variables, data types, conditionals, loops, and functions.
2	Control Flow and Loops (2 Hr)	Write Python code to solve basic programming problems and perform simple calculations.
3	Data Structures (3 Hr)	Manipulate strings, lists, tuples, and dictionaries using Python's built-in data structures and operations.
4	Functions and Modules (3 Hrs)	Understand and use control flow structures, including if-else statements, for loops, and while loops, to control program execution.
5	File Handling (4 Hrs)	Develop modular and reusable code by creating and utilizing functions in Python.
6	Object-Oriented Programming (OOP) (4 Hrs)	Work with file input/output operations to read and write data from/to files using Python.
7	Error Handling and Debugging (4 Hrs)	Utilize external libraries and modules in Python to extend the capabilities of their programs.
8	Advanced Topics in Python (3 Hrs)	Understand object-oriented programming (OOP) concepts, such as classes, objects, inheritance, and polymorphism.
9	File I/O and Serialization (3Hrs)	Create and work with Python classes to implement object-oriented solutions to programming problems.
10	Python Standard Library (3 Hrs)	Handle exceptions and errors gracefully in Python programs by using try-except blocks.

All the above contents are delivered to the best of my knowledge and belief and nothing is withheld.

Signature: 
Name of Faculty: Ms. Ambooj

Submitted to HoD- Department of Information Communication and Technology, TIAS