Course Syllabus

21-22

Certificate course in python for beginners

Objectives:

1. **To provide a basic idea about programming and programming language**
2. **To enhance students technical knowledge**

Module I

Introduction:

- Computer programming
- Programming languages

- Compilers and interpreters

- Python as programming language

(4Hours)

Module II

Basic Python syntax

- Data types
- Variables
- Expressions and type conversion
- Defining functions
- Returning values
- Input and output statements
- Branching with if

(6 Hours)

Module III

Strings ,lists,dictionaries.

- **Strings**
- **Lists**
- **Tuples**
- **dictionaries**

(4 Hours)

Module IV

Loops in python

- introduction to loop
- while
- examples
- initialisation
- infinite loop and Break statement
- for and nested for loops
- errors in loops

(10 Hours)

Module IV

Practical session

Simple programs using python   **(6 hours)**