

St. John's College, Anchal
Department of Commerce

Add on course:
Hands on training on Python for
beginners



DURATION
25 hours



Commencement date
Jan 4th 2022



COURSE CO-ORDINATOR
Mrs. Munnoo Maria Charles

Contact now



COURSE SUMMARY REPORT

2021-2022

Name of Course	ADD-ON COURSE (2021-2022) - Hands-on Training on Python for Beginners (COM.AD.A21.1)
Course Duration	30 Hours
Department offering the Course	Department of Commerce
Faculty In Charge	Munnoo Maria Charles
Number of Students Enrolled	18
Start Date & End Date	04/01/2022 to 03/03/2022

The add on course on **Hands-on Training on Python for Beginners (COM.AD.A21.1)** has been coordinated by the Department of Commerce, St John's College, Anchal. Through this introductory course for beginners one can learn programming with python, right from its fundamentals. The students get a chance to study the theory and gain practical experience during each stage of the course. The course had a well-defined syllabus and was approved by the IQAC. The add on course was coordinated by Mrs. Munnoo Maria Charles, Assistant Professor, Department of Environmental Sciences. The course was properly planned and organised to provide maximum support to students during their learning process. The course duration was 25 hours. 18 students enrolled for the program. The course started on 04.01.2022 and ended on 03.03.2022. During the end of course, a practical examination was conducted. All students attended the examination and the final assessment was done, based on the marks secured by them in it. All students passed the examination. Certificates were also provided to them after the successful completion of the course.


Course Coordinator


Principal

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Anchal 691 306

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Name of Course	ADD-ON COURSE (2021-2022) - Hands-on Training on Python for Beginners
Course Code	COM.AD.A21.1
Department offering the Course	Department of Commerce
Course Duration	30 Hours
Faculty In Charge	Munnoo Maria Charles

Course Title: COM.AD.A21.1 Hands-on Training on Python for Beginners

This course provides the fundamentals knowledge on Python programming, using Anaconda and Jupyter Notebook. The course is suitable for those that are either completely new to programming, or are coming from another programming language (R, JavaScript, etc) and are keen to get a solid grasp of using Python.

Course Objectives:

- To understand why Python is a useful scripting language for developers.
- To learn how to design and program Python applications.
- To learn how to use lists, tuples, and dictionaries in Python programs.
- To learn how to use indexing and slicing to access data in Python programs.
- To learn how to write loops and decision statements in Python.
- To learn how to write functions and pass arguments in Python.
- To learn how to build and package Python modules for reusability.

Course Outcomes: At the end of the course, students should be able to:

- Install, debug and run a Python program.
- Differentiate between brackets, braces, and parentheses.
- Define variables, identify keywords, Operators and Operands, Expressions.
- Understand control flow statements.
- Use function calls and definitions.
- Understand the various Data structures

Understand Numpy and Pandas libraries

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Assessment and Certification:

- Practical assessment: Participants will be evaluated based on their ability to write programs as per requirements.
- Course completion certificate.

Syllabus

MODULE	TITLE	CONTENT	HOURS
1	Python Installation	Features of Python, Installation of Python (Jupyter Notebook), Getting started	2
2	Introduction to Python	Variables, Output and Input in Python, Operators (Arithmetic, Assignment, Relational and Logical)	3
3	Core Modules and Libraries	Modules: calendar, os, random, re, math, time, string. Libraries: numpy, pandas, matplotlib, seaborn, scipy	3
4	Control Flow Statements	If statement, If - else, For loop, While loop	5
5	Abnormal Loop Termination	Statements: Break, Continue, Pass	3
6	User Defined Functions	Functions: without arguments, with arguments	3
7	Data Structures	Lists, Tuples, Dictionary	4
8	Numpy Library for Arrays	One dimensional array, Multidimensional array	3
9	Pandas Library for data processing	Basics of Dataframe, Import of data, Functions of Dataframe	4


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