



# ANSAR WOMEN'S COLLEGE

(Affiliated to University of Calicut)

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Date.....

Ref:

## PG DEPARTMENT OF COMPUTER SCIENCE CERTIFICATE PROGRAMME IN PYTHON FOR DATA SCIENCE

Coordinator : SHAHEENA K V

Year : 2019-2020

Duration : 30Hours

### CURRICULUM

#### Prerequisites:

This course is intended for learners who have a basic knowledge of programming in any language (Java,C,C++,PHP,etc.).

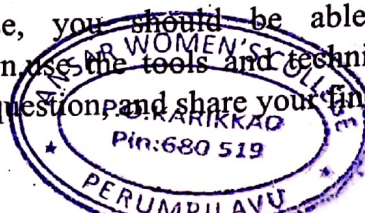
#### Course Overview:

This course will introduce you to the field of data science. you'll learn how to conduct data science by learning how to analyze data. That includes knowing how to import data, explore it, analyze it, learn from it, visualize it, and ultimately generate easily shareable reports. To conduct data analysis, you'll learn a collection of powerful, open-source tools: python, jupyter notebooks, pandas, numpy, matplotlib, scikit learn.

#### Learning Objectives:

- Basics of Python Language
- Basics process of data science
- Jupyter notebooks
- An applied understanding of how to manipulate and analyze datasets
- Basic statistical analysis
- How to effectively visualize results

By the end of the course, you should be able to find a dataset, formulate a research question, use the tools and techniques of this course to explore the answer to that question and share your findings.



# Syllabus

**Module I (10 Hr):** Python Programing Fundamentals: Tokens, Conditional and looping statements, Strings, Lists, Tuples and Dictionary

**Module II (10 Hr):** Data file formats. Importing data, reading data of different file formats. Python Libraries for Data Science: Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn.

**Module III (10 Hr):** Data Visualization and Exploratory data analysis.

Assessment Procedure : Multiple Choice Question Paper

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Department of Computer Science  
Ansar Women's College  
Perumpilavu

PRINCIPAL



ANSAR WOMEN'S COLLEGE PERUMPILAVU  
PG DEPARTMENT OF COMPUTER SCIENCE  
CERTIFICATE PROGRAMME IN PYTHON FOR DATA SCIENCE  
STUDENT LIST 2019-20

NO	NO	NAME	PROGRAMME	YEAR
1	B05074	HARITHA V	MSC COMPUTER SCIENCE	FIRST
2	B05254	HASNA N A	MSC COMPUTER SCIENCE	FIRST
3	B04994	HASNA T H	MSC COMPUTER SCIENCE	FIRST
4	B05000	LUBNA P H	MSC COMPUTER SCIENCE	FIRST
5	B05009	NAHANA KADAVATH	MSC COMPUTER SCIENCE	FIRST
6	B05123	RAMYA M	MSC COMPUTER SCIENCE	FIRST
7	B05537	REVATHY V M	MSC COMPUTER SCIENCE	FIRST
8	B05330	RINSHA T V	MSC COMPUTER SCIENCE	FIRST
9	B05547	SHAMNA C	MSC COMPUTER SCIENCE	FIRST
10	B05530	SHIRIN SHAHNAS B V	MSC COMPUTER SCIENCE	FIRST
11	B05480	USNA V	MSC COMPUTER SCIENCE	FIRST
12	B04778	ATHIRA MOHAN P	MSC COMPUTER SCIENCE	SECOND
13	B04798	AHMED	MSC COMPUTER SCIENCE	SECOND
14	B04720	JAMSHEENA N	MSC COMPUTER SCIENCE	SECOND
15	B04721	NADHIYA K A	MSC COMPUTER SCIENCE	SECOND
16	B04877	FAHEEMA K K	MSC COMPUTER SCIENCE	SECOND
17	B04730	RAHNA C	MSC COMPUTER SCIENCE	SECOND
18	B04885	VIDYA RAJENDRAN NAIR	MSC COMPUTER SCIENCE	SECOND
19	B04755	NUJOOPA P	MSC COMPUTER SCIENCE	SECOND
20	B05534	SHAHANA K V	MSC COMPUTER SCIENCE	SECOND



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**CERTIFICATE PROGRAMME IN PYTHON FOR DATA SCIENCE**  
**(2019-2020)**

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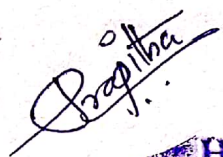
Course Offered For: S2 MSC COMPUTER SCIENCE, S4 MSC COMPUTER SCIENCE

**SUMMARY REPORT**

The certificate course in "Python for Data Science" was conducted in the academic year 2019-2020. The course offered the PG students to study about Python.

A total of 20 PG students successfully completed the course. It was coordinated by the head of the Department, Ms. Shaheena K V. Other faculties in the department assisted in conducting the course. Allotted both theory class and practicals was 30 hours and Syllabus was in 3 modules. Classes are provided to the student as per the Syllabus and attendance was strictly monitored. The mode of examination was offline. The students achieved desired objectives of the course.

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