



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A⁺ Grade with a CGPA of 3.47 out of 4 in the 4th cycle)

Gandhi Nagar, Vellore – 632 006, Tamil Nadu, India



VALUE ADDED COURSE

On

MATHEMATICS WITH PYTHON

(Course Code: VACMAMP24)

Even Semester



2024 - 2025

offered by

PG & Research Department of Mathematics

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www.auxiliumcollege.edu.in

in association with

Department of Mathematics

DON BOSCO COLLEGE (Co-Ed)

Yelagiri Hills, Tirupattur

Course Objectives:

- To understand the fundamental mathematical concepts and operations.
- To gain proficiency in the Python programming language.
- To explore mathematical libraries in Python such as NumPy, SciPy, and SymPy.
- To apply Python to solve mathematical problems, optimization, and data analysis.
- To develop skills in mathematical modeling and simulation.
- To apply Python to a real-world mathematical problem.

Course Outcomes:

The Learners will be able to

- Utilize Python programming for mathematical computations and analysis.
- Apply Python's powerful libraries and tools to solve mathematical problems efficiently.
- Develop a strong foundation for leveraging Python in various mathematical domains.

Topics Covered:

- Introduction to Python Programming
- Mathematical Operations in Python
- Advanced Mathematical Computing with Python
- Working with Numbers
- Sequences and Series
- Solving Equations

Course Duration: 30 Hours

Course fee: Rs. 300/-

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Course Coordinator

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