NANDHA ENGINEERING COLLEGE (Autonomous)

ERODE-52

DEPARTMENT OF MATHEMATICS

DATE: 30.11.2024

EVENT REPORT

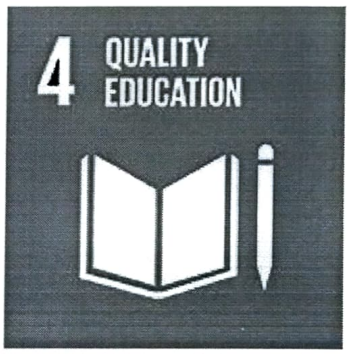
PROGRAM DETAILS:

DATE	TIME	TOPIC	RESOURCE PERSON
30.11.2024	10.00 a.m to 4.00 p.m	One Day Faculty Development Progrmme on "Mathematics Through Python Programme"	**Dr. V. parthipan,** Associate Professor, Mathematics Division, School of Advanced Sciences, Vellore Institute of Technology, Chennai.

PARTICIPANTS DETAILS:

30.11.2024 TOTAL NUMBER OF PARTICIPANTS	**50**

SDG MAPPING:



SESSION OUTCOME:

The One-Day Faculty Development Programme on "Mathematics Through Python" aims to enhance faculty skills in integrating Python programming with mathematical concepts. Participants will gain hands-on experience in using Python for solving mathematical problems, improving their ability to teach complex topics through computational methods. By the end of the session, attendees will have a better understanding of Python libraries such as NumPy, SciPy, and Matplotlib, enabling them to visualize and analyze mathematical data. The session will also foster the development of computational thinking, empowering

educators to adopt modern tools in their teaching practices. Faculty members will be equipped to guide students in leveraging Python for mathematics learning, enhancing problem-solving skills and computational fluency. Participants will explore Python's versatility in handling algebra, calculus, statistics, and other areas of mathematics. They will be introduced to real-world applications, preparing them to incorporate Python in the curriculum effectively.

ABOUT THE SESSION:

The session will focus on demonstrating how Python can be used to solve mathematical problems, visualize concepts, and analyze data effectively. Faculty members will explore key Python libraries such as NumPy, SciPy, and Matplotlib, which are essential for mathematical computations and graphical representations. The programme will provide practical, hands-on experience, enabling participants to integrate computational tools into their teaching strategies. By incorporating Python into their curriculum, educators will be able to enhance students' understanding of mathematical concepts and foster a more interactive learning environment. The session will also emphasize the importance of computational thinking in modern mathematics education. Overall, the programme aims to empower faculty with the necessary skills to make mathematics more engaging and accessible through Python.

ONE DAY FACULTY DEVELOPMENT PROGRMME ON "MATHEMATICS THROUGH PYTHON PROGRAMME – AGENDA:

TIME	AGENDA	SPEAKER	DURATION
10.00 a.m	Prayer Song	MoC	2 minutes
10.03 a.m	Welcome Address	**Dr. G. S.Murugapandian** AP & Head Department of Mathematics	3 minutes
10.05 a.m	Felicitation	**Dr.U. S. Ragupathy,** Principal, Nandha Engineering College. **Mr. R.Thiruneelakandan,** Head of the Department, Department of Science &Humanities.	15 minutes
10.20 a.m	Chief Guest Introduction	MoC	3 minutes
10.23 a.m	Honoring Guest	**Dr.U.S.Ragupathy,** Principal, Nandha Engineering College.	3 minutes

10.27 a.m	Chief Guest Address	**Dr.V. Parthipan,** Associate Professor, Mathematics Division, School of Advanced Sciences, VIT, Chennai.	

SCHEDULE:

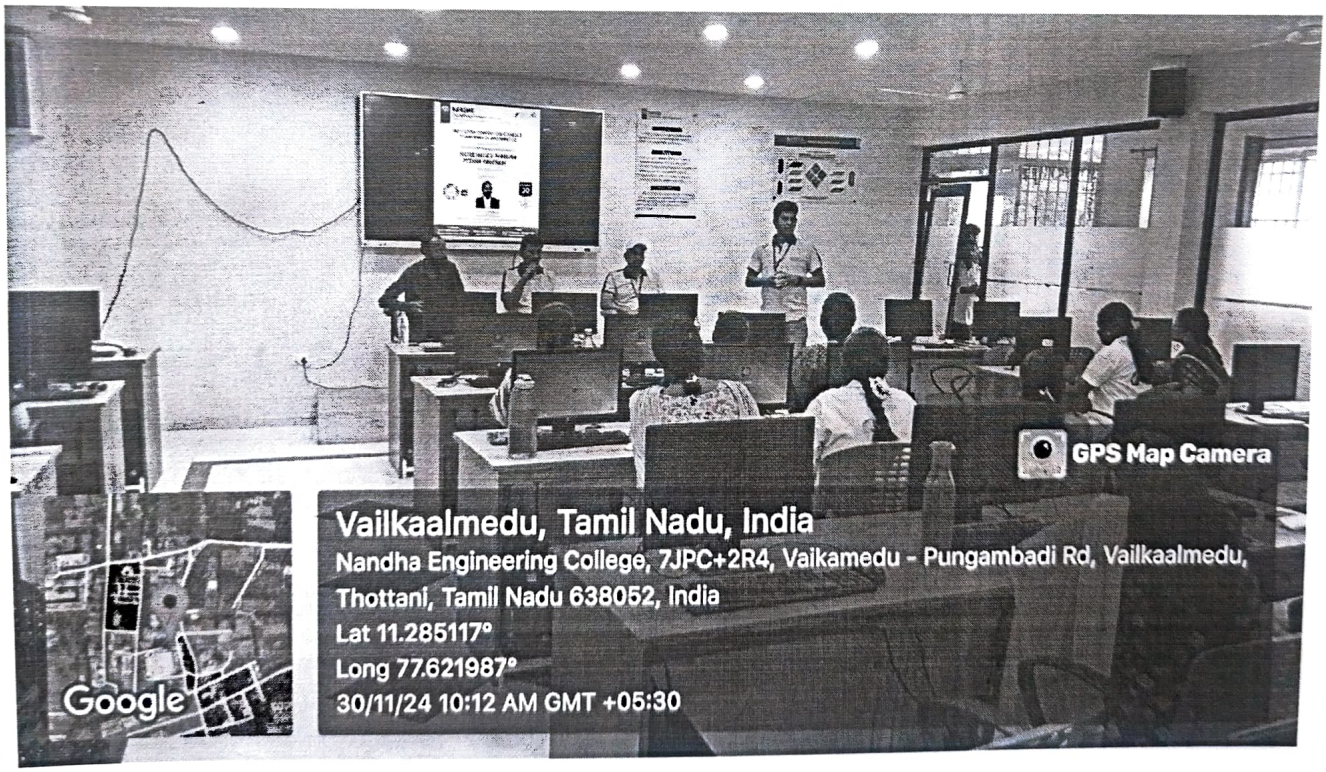
10.30 a.m to 11.15 a.m	Session: 1
11.15 a.m to 11.30 a.m	Tea Break
11.30 a.m to 1.00 p.m	Session: II
1.00 p.m to 2.00 p.m	Lunch Break
2.00 p.m to 3.30 p.m	Session: III

3.30 p.m	Faculty Intraction	Chief Guest	15 minutes
3.45 p.m	Vote of Thanks	Ms.J.Amutha Praba, AP/Maths	3 minutes

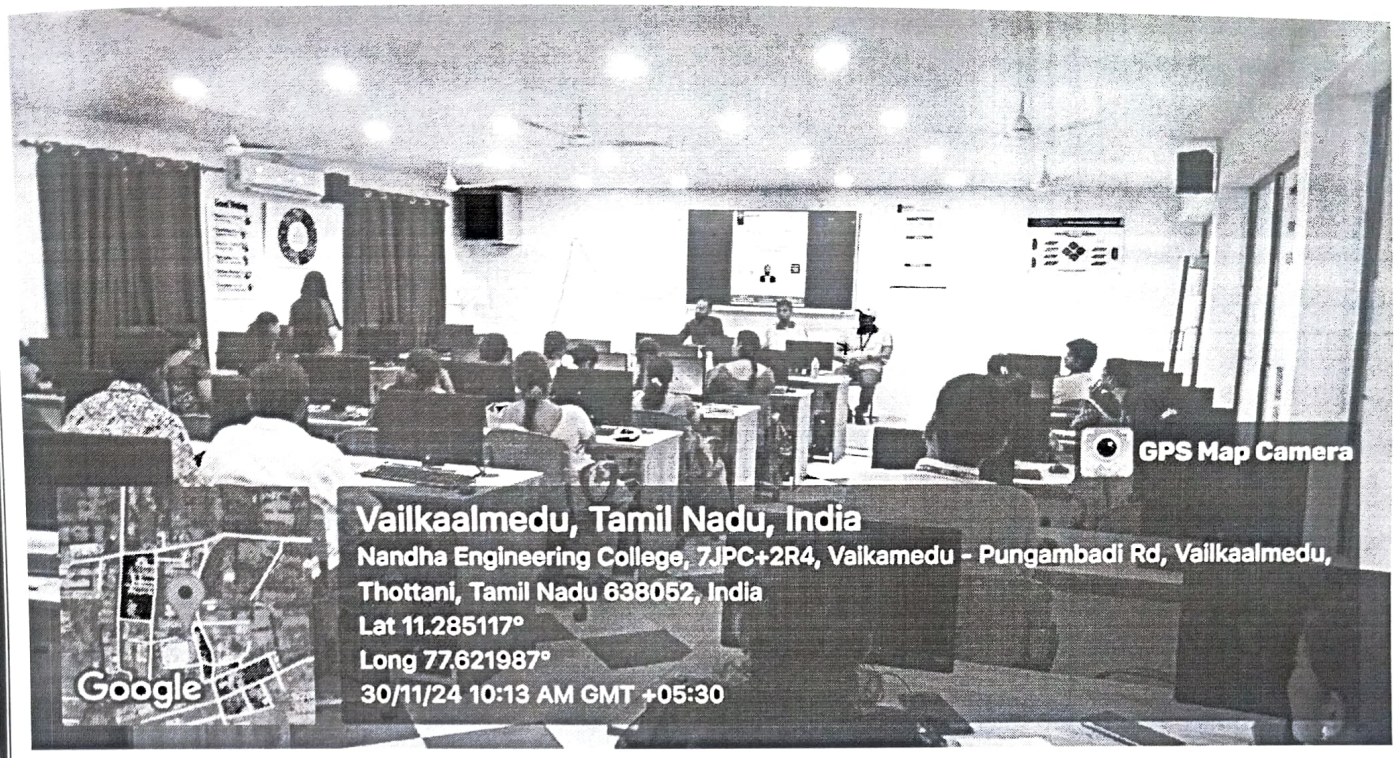
Highlights of the program

Dr. G S. Murugapandian, Head, Department of Mathematics, Welcomed gathering

Guest Felicitation address from our Principal, Dr.U. S. Ragupathy



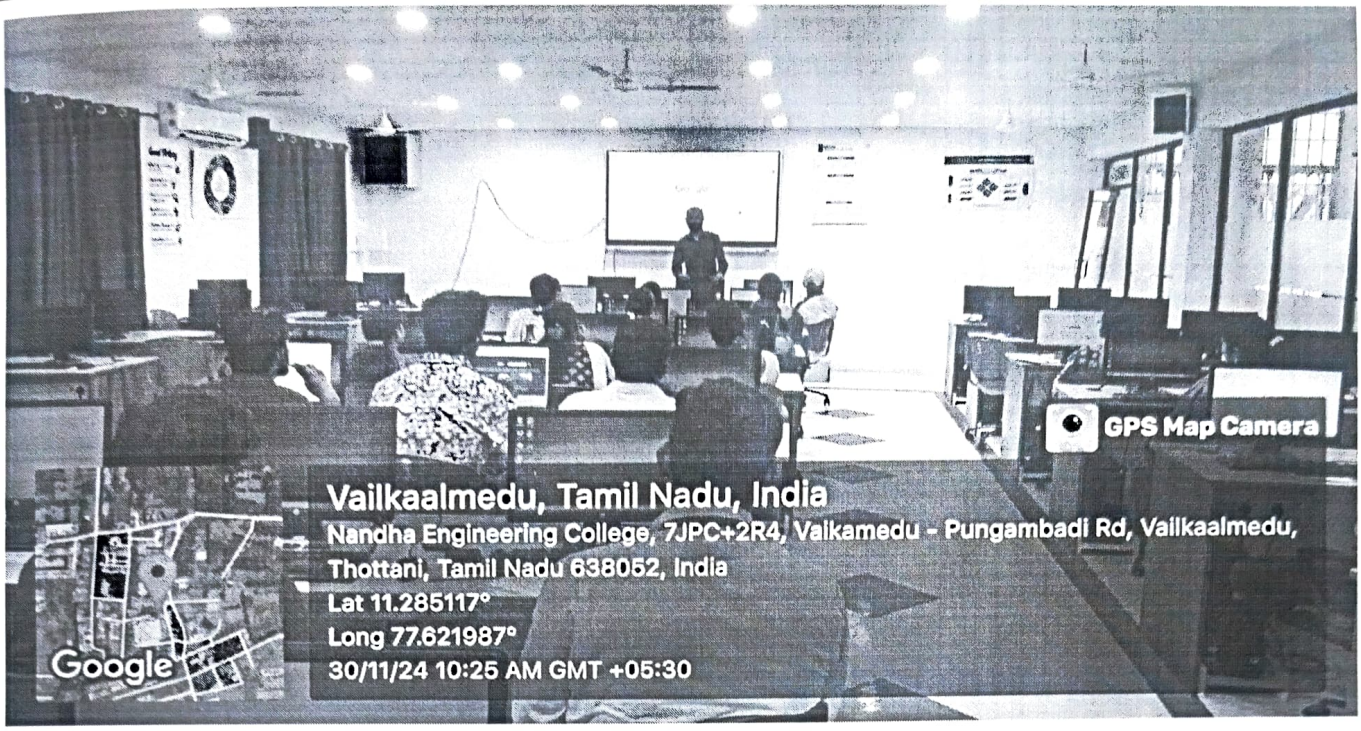
Mr. R.Thiruneelakandan, Head, Department of Science & Humanities, Felicitation gathering



Chief Guest-Dr. V. Parthiban address gathering

Dr. U. S. Ragupathy, Principal, honoured the Chief Guest with memento during the Inauguration of the event

Dr. U. S. Ragupathy, Principal, NEC, Interaction for faculty's



Dr.V. Parthipan, Associate Professor, Mathematics Division, School of Advanced Sciences, VIT, Chennai.

Key takes away:

- Participants will learn to use Python to solve complex mathematical problems efficiently.
- Gaining hands-on experience with Python libraries such as NumPy, SciPy, and Matplotlib for mathematical computations and visualizations.
- Strategies for incorporating Python into the classroom to improve student engagement and understanding of mathematical concepts.
- Understanding how to visualize mathematical functions and data using Python tools.
- Developing computational thinking skills to approach mathematical challenges in innovative ways.
- Exploring practical, real-world applications of Python in fields such as algebra, calculus, and statistics.
- Building a network of educators to exchange ideas on leveraging technology in mathematics education.
- Discovering new, tech-driven teaching methods to make mathematics more accessible and interactive for students.

Facultys' feedback

The One-Day Faculty Development Programme on "Mathematics Through Python" was highly informative and engaging, providing valuable insights into using Python for teaching mathematics. The hands-on sessions with libraries like NumPy and Matplotlib were particularly beneficial for enhancing both teaching and computational skills. The practical approach made it easier to integrate Python into the curriculum and improve student learning. Overall, the session was well-organized, interactive, and empowering for faculty looking to innovate their teaching methods.

- *Suguna Angamuthu, AP/IT, Facultys' feedback during program*

3/12/2024.

Event Coordinators 3/12/24

3/12/24

HOD /Maths