

Workshop Report

National level Workshop on “MATLAB & OCTAVE for Physicists”

Dates: 21-22 November 2024

Venue: Government College (A), Rajahmundry

The Department of Physics, Government College (A), Rajahmundry, organized a two-day workshop on “MATLAB & Octave for Physicists” on 21st and 22nd November 2024. The program aimed to provide participants with foundational knowledge and practical insights into MATLAB and OCTAVE, emphasizing their applications in understanding physics concepts.

Resource Person

The sessions were conducted by Dr. D. Sanjeev Kumar, Lecturer in Physics, Government College (A), Rajahmundry. Dr. Sanjeev Kumar brought his expertise in computational physics and programming, ensuring an enriching learning experience for all participants.

Participation

The workshop saw enthusiastic participation, with around 90 attendees from diverse backgrounds, including:

Undergraduate (UG) and Postgraduate (PG) students of Physics,

Faculty members from Physics and Chemistry departments across various colleges.

Workshop Highlights

The workshop covered:

1. Introduction to MATLAB and Octave: Basics of the software, interface, and key features.
2. Programming Fundamentals: Writing scripts, solving mathematical equations, and creating plots.
3. Applications in Physics:

Modeling physical phenomena,

Data analysis and visualization,

Solving differential equations relevant to physics experiments.

4. Hands-on Practice: Participants engaged in practical exercises to reinforce their learning and explore the potential of these tools in their academic and research endeavors.

Outcomes

Participants gained:

A strong foundational understanding of MATLAB and Octave,

Insights into applying computational tools for solving physics problems,

Confidence in using these platforms for academic and research applications.

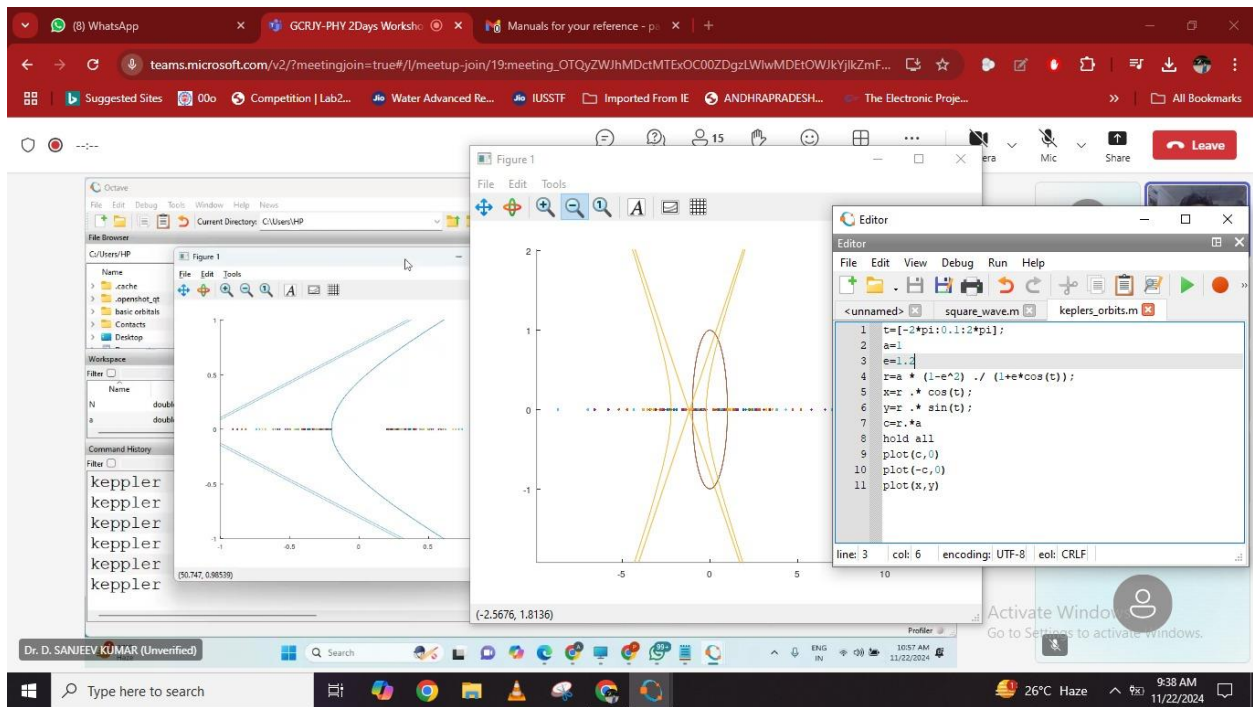
Acknowledgments

The program was convened by Smt. Ch. Komala Lakshmi, Head of the Department of Physics, Government College (A), Rajahmundry, whose guidance and support were instrumental in the workshop's success.

Conclusion

The workshop successfully achieved its objectives, fostering computational skills and demonstrating the power of MATLAB and Octave in advancing the understanding of physics concepts. Feedback from participants highlighted the effectiveness of the sessions and the value of integrating such workshops into the academic curriculum.

The Department of Physics extends heartfelt thanks to Dr. D. Sanjeev Kumar, all participants, and everyone involved in making this program a success.



Hands on training Session for Participants



Certificate distribution and felicitation of the resource person



GOVERNMENT COLLEGE

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DEPARTMENT OF PHYSICS & ELECTRONICS

Organizes

Two Day National Workshop on

“MATLAB / OCTAVE FOR PHYSICISTS”

DATE : 21st -22nd November 2024 **HYBRID MODE**

DAY-1

**BASICS OF MATLAB/OCTAVA
MATHEMATICAL FUNCTIONS
ARRAYS AND MATRICES
LOOPS & CONDITIONAL
STATEMENTS &
GRAPH PLOTTING
APPLICATIONS**

DAY-2

**APPLICATIONS OF
MATLAB/OCTAVE IN
QUANTUM MECHANICS
SOLID STATE PHYSICS
ELECTRONICS
MATHEMATICAL PHYSICS
CLASSICAL MECHANICS
STATISTICAL MECHANICS &
EM THEORY**

RESOURCE PERSON



Dr. D.SANJEEV KUMAR
Assistant Professor
Department of Physics & Electronics
Government College (A),
Rajahmundry

**REGISTRATION
FEE-100/-**

SCAN ME!!
For Registration Link:



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To join in Whatsapp group



who can participate :

**students of UG & PG with mathematical science stream
Research Scholars & Interested Faculty
For online participants,
system with octave installed is mandatory**



Prof. Ramachandra R K
Principal



CONVENOR
Smt. CH. KOMALA LAKSHMI,
In-Charge, Department of Physics & Electronics



CO-CONVENOR
Dr. H. SUDHAKARA RAO