



UGC, CMI, IMSc, KREA Sponsored Workshop on "Patterns of Life: Waves and Oscillations"

Jointly organized by

DEPARTMENT OF PHYSICS & MATHEMATICS
THE GANDHIGRAM RURAL INSTITUTE
(DEEMED TO BE UNIVERSITY)



GANDHIGRAM - 624 302, DINDIGUL, TAMILNADU, INDIA

Date: 06th & 07th March-2026

ABOUT THE INSTITUTE

The Gandhigram Rural Institute (GRI), founded by two dedicated disciples and contemporaries of Mahatma Gandhi, Dr. G. Ramachandran and Dr. T. S. Soundaram Ramachandran, has as its foundation Mahatma Gandhi's revolutionary philosophy of Nai Talim, which effectively bridges the cognitive and practical dimensions, and focuses on the holistic development of learners, with an emphasis on skill development through value-based education, rooted in indigenous cultures and traditions. Since its establishment in 1956, GRI has been unstintingly contributing to higher education and has successfully pioneered rural higher education. The curricular model developed at GRI organically integrating teaching, research, and extension has earned the Institute, the status of Deemed University in 1976 by UGC, the five-star status by NAAC in 2002, 'A' Grade during the reaccreditation in 2010 by NAAC, 'A' Grade in its third cycle of reaccreditation in the year 2016 and 'A++' Grade in its fourth cycle of accreditation in the year 2025 by NAAC.

ABOUT THE DEPARTMENT

To provide higher education for rural children, Gandhigram Rural Institute was initiated in 1956. In 1965, the department of Physics blossomed into an independent entity and was offering Diploma in Rural Services with Mathematics and Chemistry as allied subjects with Physics as core subject. The examinations were conducted by the National Council for Rural Higher Education, New Delhi and the DRS was awarded. In 1976, the Gandhigram Rural Institute was elevated to the status of a Deemed University and the Department started offering and issuing B.Sc. Degree programme in Physics with Chemistry and Mathematics as allied subjects. Considering the need for offering the PG programme in Physics, the Department of Physics offered M.Sc. Degree programme in Applied Physics in 1987. This Degree programme was later in 1994 renamed as M.Sc. (Physics). The Department started admitting students to the Ph.D. programme in 1991 and M.Phil. Degree in Physics during the academic year 2009-10 and thereafter.

ABOUT THE WORKSHOP

This workshop aims to attract highly motivated postgraduate and final year undergraduate students of Physics from colleges in and around neighboring districts. Co-sponsored by the esteemed University Grants Commission (UGC), Chennai Mathematical Institute (CMI), The Institute of Mathematical Sciences (IMSc) and KREA University. It strives to broaden students' understanding of basic concepts from a broader viewpoint. By focusing on STEM concept, the program prepares students for a wide range of disciplines and careers in these fields. This program is meant to help students comprehend ideas from a wide perspective.

INVITED SPEAKERS

- **Prof. Sitabhra Sinha**
The Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai 600113, India.
- **Prof. Govind S. Krishnaswami**
Chennai Mathematical Institute, H1, SIPCOT IT Park, Siruseri, Kelambakkam 603103, India.

ORGANIZING COMMITTEE

Chief Patron

Prof. N. Panchanatham
Vice-Chancellor GRI-DTBU

Patron

Dr. M. Sundaramari
Registrar i/c GRI-DTBU

Convenor

Dr. P. Balasubramaniam
Dean, School of Sciences
Senior Professor
Department of Mathematics GRI-DTBU

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Associate Professor
Department of Mathematics
GRI-DTBU

Dr. C. Raja Mohan
Assistant Professor
Department of Physics
GRI-DTBU

Members

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Dept. of Mathematics

Dr. R. UTHAYAKUMAR
Dr. G. MAHADEVAN
Dr. P MUTHUKUMAR
Dr. R RAJKUMAR
Dr. M SURESH KUMAR

ELIGIBILITY

- Final year undergraduate students and Postgraduate with Physics as one of the main/major subjects.
- Students from Final year B.Sc., Mathematics and M. Sc., Mathematics of GRI who are willing to strengthen their knowledge in Physics may also apply.

KEY OUTCOMES

- We aim to discuss examples, models and properties of waves and oscillations in physical contexts such as springs, strings, circuits, sound, fluids and electromagnetism
- This workshop aims to help students understand oscillations using simple demonstrations like pendulums, waves, and motion in phase space.
- It shows how oscillations create waves and resonance, explaining how energy and motion spread through systems.
- It introduces how oscillators interact, including synchronization, biological rhythms, and real-world examples like fireflies and circadian clocks.

HOW TO APPLY

- No Registration Fee.
- For Registration, scan or apply through the link <https://forms.gle/ebTeyNhFfofGmpjZ>



ACCOMMODATION

A limited number of free accommodations for the participants will be arranged on prior request. Lunch and refreshments will be provided to all the participants. (Only vegetarian food will be served.)



“Physics: the foundation of waves, motion, and the dynamics of life.”

IMPORTANT DATES

- Submission of application : 2nd March 2026
- Intimation of selection : 3rd March 2026
- Confirmation by participants : 4th March 2026

SELECTION

- The selection will be made purely on merit, based on consistently good academic records and a recommendation letter from a physics professor or the head of the institution.
- The list of selected candidates will be posted on The Gandhigram Rural Institute website <https://ruraluniv.ac.in> by 4th March 2026.
- Only selected candidates will be informed through email. The candidates have to confirm their participation through an email to griphywrksp26@gmail.com.

CONTACT DETAILS

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VENUE

No. 201, Tagore block, Guru Dev Academic Block, The Gandhigram Rural Institute (Deemed to be university) Gandhigram-624302 Dindigul, Tamil Nadu, India.



FOR QUERIES

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