

ORGANIZING COMMITTEE

Prof. (Dr.) Kamal Lochan Mahanta	HOD, Professor
Prof. (Dr.) Amaresh Chandra Panda	Professor
Dr. Trailokyanath Singh	Associate Professor
Dr. Siva Prasad Behera	Associate Professor
Dr. Ganeswar Mahanta	Assistant Professor
Dr. Prashanta Kumar Parida	Assistant Professor
Dr. Lipika Panigrahi	Assistant Professor
Dr. Asma Afreen	Assistant Professor
Dr. Mosarof Sarkar	Assistant Professor
Dr. Subhankar Jana	Assistant Professor

RESOURCE PERSONS

Dr. Sachin Shaw
Associate Professor, Department of Mathematics and Statistical Sciences, Botswana International University of Science and Technology.

Dr. Satyajit Pramanik
Assistant Professor, Department mathematics, IIT Guwahati

Prof. (Dr.) Snehashish Chakraverty
Professor, Department of Mathematics, NIT Rourkela

Prof. (Dr.) Samarjit Kar
Professor, Department of Mathematics, NIT Durgapur

Dr. Srinivasa Rao Pentyla
Associate Professor, Department of Mathematics and Computing, IIT Dhanbad (ISM)

Dr. Sicelo Goqo
Associate Professor, Department of Mathematics, UKZN, South Africa

Prof. (Dr.) Bijaya Laxmi Panigrahi
Professor, Department of Mathematics, Gangadhar Meher University, Sambalpur

Prof. (Dr.) Ameeya Kumar Nayak
Professor, IIT Roorkee

Dr. Shibesh Kumar Jas Pacif,
Director and professor, Pacif Institute of Cosmology and Selfology (PICS), Sagara, Sambalpur 768234, Odisha, INDIA

ELIGIBILITY

The FDP program is open to research scholars and faculties from all branches from Universities/Engineering Colleges/Degree Science Colleges

REGISTRATION AND FEE PARTICULARS

- Registration Fee: ₹200 (Non-refundable)
- Registration for the program should be done by filling the online [google form](#)
- Link: <https://forms.gle/B1QYj7eJHDSPrxR6>

Axis Bank
A/C Name: Raman Education Society
A/C NO: 925030013893335
IFSC: UTIB0006281



IMPORTANT DATES

Last date of receipt of application July 25, 2026
FDP Duration July 27-August 1, 2026

CORRESPONDENCE Department of Mathematics

Dr. Subhankar Jana subhankar.jana@cgu-odisha.ac.in
Ph No: 9064884513

Dr. Lipika Panigrahi lipika.panigrahi@cgu-odisha.ac.in
Ph No: 9337074119

Dr. Mosarof Sarkar mosarofsarkar@cgu-odisha.ac.in
Ph No: 7501765396

C. V. RAMAN GLOBAL UNIVERSITY
Bidyanaagar, Mahura, Bhubaneswar, Odisha 752054
cgu-odisha.ac.in



One Week Faculty Development Program (Online) on

Modern Techniques in Scientific Computing for Mathematical Applications

July 27-August 01, 2026



Organized by

Department of Mathematics

C. V. RAMAN GLOBAL UNIVERSITY



ABOUT THE INSTITUTE

Established in accordance with the Odisha Act 01 of 2020, C. V. Raman Global University, Odisha (CGU, Odisha) introduces students to new and innovative ways of learning. It is a vibrant community of students, faculty and staff members committed to making a difference in society by leading with innovation and purpose. We take pride in our ethos and collaborative culture that foster intellectual engagement and growth. At CGU, Odisha, students learn to challenge the status quo and solve the most difficult problems with analytical rigour and creativity. We continue to add interdisciplinary courses to our existing portfolio to offer a truly global education in the field of science and technology.

CGU, Odisha rests on the legacy and leadership of C.V. Raman College of Engineering (CVRCE) which began its transformative journey in 1997. It grew in record time imparting technical education with a larger purpose and impact through world-class laboratories, research-intensive learning pedagogy, unmatched Centres of Excellence and unhindered connectivity to some of the finest libraries in the world.

ABOUT THE DEPARTMENT

The Department of Mathematics came into existence in 1997. The Department has proved its excellence by demonstrating leadership in the areas of pure mathematics, applied mathematics and computing. The faculty members are actively involved in research and publish research papers in journals with good impact factors. The faculty train the students with strong fundamentals of theory and practical use of mathematics. Mathematics is the backbone of knowledge enhancement for Scientists and Engineers. Keeping this in view, our focus is to produce graduates equipped with modern mathematical and computational tools and a strong understanding of real-world and engineering problems. In addition, we allow students to earn credits through the new education policy and get minor degrees simultaneously which will enhance their interdisciplinary skills.

ABOUT THE FDP

This FDP (Online mode) is designed to provide participants with a comprehensive understanding of contemporary computational methodologies and their applications in mathematics and allied fields. The FDP is intended for faculty members, research scholars, postgraduate students, and professionals who seek to strengthen their computational skills and explore the integration of scientific computing into mathematical problem-solving and interdisciplinary research. Participants will gain exposure to contemporary computational tools and methodologies that can be effectively incorporated into academic curricula and research activities. By bringing together distinguished academicians, researchers, and practitioners, the programme aims to foster an environment of collaborative learning, intellectual exchange, and professional networking. It is expected to inspire participants to adopt modern computational approaches in their teaching and research while promoting interdisciplinary collaborations that address emerging challenges in mathematics, science, engineering, and technology.

FOCUS AREA & OBJECTIVES OF THE FDP

The FDP aims to

- ❖ To provide a strong foundation in modern scientific computing.
- ❖ To strengthen computational and analytical skills for mathematical applications.
- ❖ To enhance teaching and research through scientific computing.
- ❖ To promote interdisciplinary research in mathematics and allied fields.
- ❖ To foster collaboration in computational mathematics and scientific research.

WHO SHOULD ATTEND

Faculty members and Research scholars from Universities/Engineering Colleges/ Degree Science Colleges and Working Professionals from Industries/R&D and Other Organisations with Basic Degree in Mathematics/Applied Mathematics and Computing

FDP COMMITTEE

CHIEF PATRON

Shri Sanjib Kumar Rout

Hon'ble President

C. V. Raman Global University, Bhubaneswar

PATRON

Prof. (Dr.) Banshidhar Majhi

Hon'ble Vice Chancellor

Prof. (Dr.) Guda Sridevi

Hon'ble Pro Vice Chancellor

C. V. Raman Global University, Bhubaneswar

EVENT COORDINATORS

Dr. Lipika Panigrahi

Assistant Professor

C. V. Raman Global university

Dr. Subhankar Jana

Assistant Professor

C. V. Raman Global university

Dr. Ganeswar Mahanta

Assistant Professor

C. V. Raman Global university

EVENT CO-COORDINATORS

Prof (Dr.) Kamal Lochan Mahanta

Professor

C. V. Raman Global university

Dr. Asma Afreen

Assistant Professor

C. V. Raman Global university

Dr. Mosarof Sarkar

Assistant Professor

C. V. Raman Global university





C.V. RAMAN GLOBAL UNIVERSITY

Department of Mathematics

One-Week Faculty Development Program on

Modern Techniques in Scientific Computing for Mathematical Applications



[Register Here](#)

27 July – 01 August 2026

Session I: 11:00 AM – 1:00 PM • Break: 1:00 – 2:30 PM • Session II: 2:30 – 4:30 PM

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July 2026

Mon

SESSION I • 11:00 AM – 1:00 PM

Inauguration

SESSION II • 2:30 PM – 4:30 PM



Scientific Computing with Python for Magnetic Drug Targeting: Mathematical Modelling and Numerical Simulation

Dr. Sachin Shaw

Associate Professor, BIUST, Palapye, Botswana

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July 2026

Tue

SESSION I • 11:00 AM – 1:00 PM



Numerical Solutions of Integral Equations using Wavelets

Prof. (Dr.) Bijaya Laxmi Panigrahi

Professor, Gangadhar Meher University, Sambalpur

SESSION II • 2:30 PM – 4:30 PM



Numerical Methods for Differential Equations using Python

Dr. Satyajit Pramanik

Assistant Professor, IIT Guwahati

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July 2026

Wed

SESSION I • 11:00 AM – 1:00 PM



Electroosmotic Flow in Micro and Nano Channels: A Mathematical Approach for Mixing

Prof. (Dr.) Ameet Kumar Nayak

Professor, IIT Roorkee

SESSION II • 2:30 PM – 4:30 PM



Scientific Computing with Machine Intelligence: Mathematical Models and Dynamical Applications

Prof. (Dr.) Snehashish Chakraverty

Professor, NIT Rourkela

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July 2026

Thu

SESSION I • 11:00 AM – 1:00 PM



Agentic AI and its Impact in Scientific Computing and Applications

Dr. Srinivasa Rao Pentyla

Associate Professor, IIT Dhanbad (ISM)

SESSION II • 2:30 PM – 4:30 PM



Advanced Spectral Algorithms with Machine Learning for Scientific Computing

Dr. Siculo Goqo

Associate Professor, UKZN, South Africa

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July 2026

Fri

SESSION I • 11:00 AM – 1:00 PM



Testing Cosmological Models Using Observational Data: Analysis and Parameter Estimation

Dr. Shibesh Kumar Jas Pacif

PICS, Sagara, Sambalpur

SESSION II • 2:30 PM – 4:30 PM



Complexity of Algorithms with AI Applications

Dr. Srinivasa Rao Pentyla

Associate Professor, IIT Dhanbad (ISM)

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Aug 2026

Sat

SESSION I • 11:00 AM – 1:00 PM



Integrating Machine Learning and Mathematical Optimization for Sustainability, Health, and Environment

Prof. (Dr.) Samarjit Kar

Professor, NIT Durgapur

SESSION II • 2:30 PM – 4:30 PM

Final Assessment, Feedback & Valedictory