National Institute of Technology Raipur

Continuing Education Cell (CEC) & Department of Mathematics

Self -Finance (online-mode) one week National Level Short Term Training Programme (STTP)

on

"Frontiers in Applied Mathematics: Modelling, Computation, and Quantum-Driven Techniques (FAMMCQDT-2025)"

July 09 - 13, 2025

About Course

Objectives of Training Programme: This programme explores the evolving role of applied mathematics in science and technology, focusing on modeling, computation, and quantum-driven techniques. It highlights tools like machine learning and quantum methods, offering a platform for participants to engage with advancements, share insights, and foster innovation across interdisciplinary research and real-world applications.

About CEC

Continuing Education Cell (CEC) , NIT Raipur aims to update skills, broaden knowledge, enhance qualifications, foster personal growth, and promote National and International technological advancement through training and expertise.

About NIT Raipur

National Institute of Technology Raipur (An Autonomous institute of National Importance) fully funded by the Govt. of India. NIT Raipur is located in Raipur, the Capital City of Chhattisgarh State and spread over an area of approx. 100 acres. NIT Raipur is ranked 70th in engineering category in India by the NIRF, and it is the highest ranked engineering college in Chhattisgarh. Presently NIT Raipur offers 12 undergraduate, 14 Postgraduate (including M.Sc., M.C.A, and M.Tech. in Applied Geology) and 18 Ph.D. programs. The institute offers facilities for research and also undertakes R & D activities, provides testing, consultancy and other extension services including continuing education to the industry through the Industry Institute Interaction cell and the placement of the student through the Department of Training & Placement. More details about NIT Raipur are at: http://www.nitrr.ac.in.

About Department

The **Department of Mathematics** came in existencesince 1956. The department provides an outstanding research environment and offers academic program leading to the award of PG/Ph.D. degree. Apart from this, department taking care of Mathematical input to all undergraduate and postgraduate courses in Engineering and Computer Science Applications

Eligibility for Participation

Participation is open to faculty, research scholars, UG/PG students of Science and Engineering, and professionals from R&D, industry, or academia seeking foundational knowledge in relevant mathematical, scientific, or engineering concepts.

For Registration

For More Details Click

https://www.nitrr.ac.in/conference.php

Scan QR for More Details

Course Outline

- **Mathematical Modelling & Simulation**: Introduction to modelling real-world problems using computational techniques.
- **Quantum Cryptography & Networking**: Exploration of secure communication and quantum protocols.
- **Matrix Theory & Numerical Linear Algebra**: Focus on nonlinear eigenvalue problems
- **Financial Mathematics**: Topics include derivatives pricing and risk modeling.
- **Machine Learning & Applications**: Mathematical tools for ML, including optimization, neural networks, graph theory, and image processing.

Features of Course

This programme explores the role of applied mathematics in science and technology, focusing on modelling, computation, and quantum-driven techniques. It highlights machine learning and quantum methods, offering a platform for innovation, collaboration, and real-world applications across disciplines.

Important Dates

Registration Last Date:	**3rd July 2025**
List of Shortlisted Candidates:	**6th July 2025**
Course Start Date:	**9th July 2025**
Course End Date:	**13th July 2025**

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Chief Patron

Prof. N.V. Ramana Rao, Director, NITRR

Patron

Dr. Subhojit Ghosh, Chairman (CEC), NITRR

Chairman

Dr. D. Mishra, HOD (Maths), NITRR

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Speakers

Subject experts of the course may be from re-nowned institutes and Industries.

Account Details

Account No.	:	**38027633250**
Name	:	**Director, NIT Raipur**
Bank Name	:	**State Bank of India**
Bank Branch	:	**NIT Branch**
IFSC Code	:	**SBIN0002852**
MICR Code	:	**492002004**
Swift Code	:	**SBININBB646**
PAN Card Number	:	**AAAJN0643G**
GSTIN Number	:	**22AAAJN0643G1ZN**

OR

Scan the QR code for fee payment

Note: Applicants must upload the proof of fee payment via the Google Form. Please note that the registration fee is non-refundable.

Fee Details

	Category	Fee (Rupees)
Course Fee	NITRR Students	(₹ 500 + 18% GST) = ₹ **590 /-**
	External Students/ NITRR Staff	(₹ 750 + 18% GST) = ₹ **885 /-**
	Industry Delegates/ Faculty	(₹ 1500 + 18% GST) = ₹ **1770 /-**

Registration Process

The payment must be done through ONLINE mode in the given account details. After payment, participant is required to fill the following Google form:

Click Google Form: https://forms.gle/79rc73NkG63i4GCDA

OR

Scan Google Form