

About NIT Goa

The National Institute of Technology Goa (NIT Goa) is a premier national level technical Institute in India established in 2010 by an act of parliament (NIT Act, 2007 and NIT (Amendment) Act, 2012). NIT Goa is an autonomous Institute functioning under the aegis of the Ministry of Education (MoE), Government of India, and has been declared an "Institute of National Importance". The Campus is located at Kottamoll Plateau, Cuncolim Municipal Area, Salcete Taluk, South Goa District, Goa – 403703. The Institute offers B.Tech, M.Tech, and Ph.D. Programmes in various streams of Engineering, Applied Sciences (Mathematics, Physics & Chemistry) and Humanities & Social Sciences.

About the Department of Applied Sciences:

The department of Applied Sciences at the National Institute of Technology Goa is renowned as one of the foremost departments. It conducts multidisciplinary research in mathematical, physical, and chemical sciences. Particularly, research in mathematical sciences is dedicated to discovering mathematical solutions for various socio-economic, technological, and occupational processes and challenges. Our mathematics faculty focuses on fluid dynamics, numerical linear algebra, numerical and theoretical studies on differential equations, and mathematical modeling of biological problems. Currently, there are 15 research scholars in the mathematics discipline.

Chief Patron

Prof. O R Jaiswal
Director, NIT Goa

Chairman

Dr. Shangerganesh L, Head
Department of Applied Sciences

Coordinator(s)

Dr. Ravi Ragoju
Dr. Shangerganesh L
Dr. Raviprasad K J

Organizing Committee

All Faculties and Staff Members of
Department of Applied Sciences,
NIT Goa

Contact Persons

Dr. Ravi Ragoju
Associate Professor
Email: ravi@nitgoa.ac.in,
Mob: 9404715466

Dr. Shangerganesh L
Assistant Professor
Email: shangerganesh@nitgoa.ac.in
Mob: 98435 17272

**Department of Applied Sciences
National Institute of Technology Goa
Cuncolim-403703, India**

Five Day's Workshop on Computational Mathematics: Traditional to Machine Learning Approaches

(June 2-6, 2025)



**Organized
by**

**Department of Applied Sciences
National Institute of Technology
Goa
South Goa, Cuncolim**

About Workshop CMML:

Mathematical models stand as potential tools with wide-ranging applications across physics, chemistry, biology, and various engineering sciences. Computational mathematics using advanced numerical tools like finite element method and artificial neural network techniques is a noteworthy area of study. Therefore, this workshop will serve as a platform to learn computational mathematics and bring together those who beginning carrier in research across the country, in addition to the distinguished plenary and invited speakers. This event is also valuable for young researchers and students eager to learn from renowned persons in these fields.

Resource Persons

Eminent experts from IIT's, NIT's, Central Universities, Industries etc.

Objectives

The primary objectives of the course are as follows:

Finite Element Methods (FEM)

Mathematical Modeling using Differential Equations

Hydrodynamic Stability

Mathematical Biology

Non-Linear Optimization

Mathematics for Artificial Neural Networks (ANN) and Machine Learning

Accommodation

■ Lodging and boarding arrangements for the participants of the workshop will be provided at the NIT Goa Guest houses/Hostels on payment basis.

Eligibility

This workshop is open to all Faculty, Post-doctoral research students, Ph.D. students and Graduate students, working in Applied Mathematics, Computer Science, Mechanical Engineering, Chemical Engineering, Civil Engineering, and Engineering Physics.



The registration fee is mandatory for all the Participants, and registration fees is nonrefundable

Research Scholars/Students	Rs. 4000
Participants from Academia/R&D/Industry	Rs. 5000

- Last date for Registration: May 26, 2025
- Click on the below link Or Scan the following QR Code for Registration Cum Payment.



<https://forms.gle/GT8L3YFi6WkhsdGw5>

Venue

**Department of Applied Sciences
National Institute of Technology Goa
South Goa – 403703**