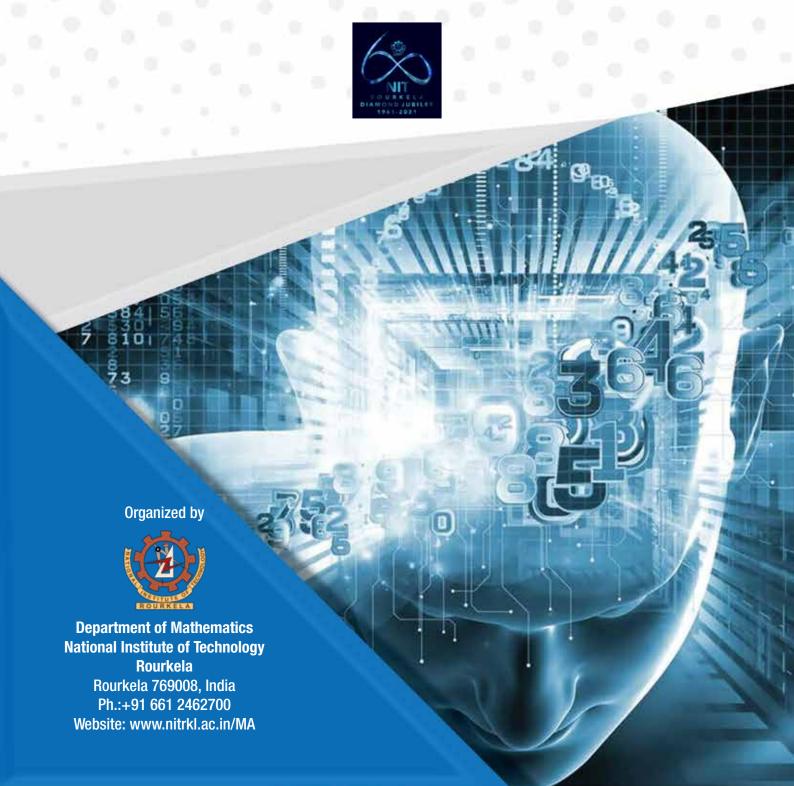# Short Term Training Program (STTP)

Emerging Applications of Mathematics and Statistics in Engineering Science and Technology

(EAMSEST-2022)

Through Hybrid (online and offline mode)

Duration: May 9th to May 13th, 2022

Organized by

Department of Mathematics
National Institute of Technology
Rourkela
Rourkela 769008, India
Ph.:+91 661 2462700
Website: www.nitrkl.ac.in/MA

About the Host Institute

The institute was established as Regional Engineering College (REC) Rourkela on August 1961 under the Ministry of Odisha and its foundation stone was laid by the Prime Minister of India. It was granted autonomy and functional independence by the Ministry of Human Resource Development in 2002 thus becoming National Institute of Technology. The institute has 21 departments and the campus is situated in lush green environment. It is publicly funded institute of higher learning for engineering and technology located in the steel city of Rourkela, Odisha, India.

Topics to be Covered

Advanced techniques associated with mathematical modelling	Applications of novel emerging techniques to engineers and scientists	New advances in Computational fluid dynamics	Recent trends and developments in numerical analysis
New developments in mathematical biology	Recent trends and applications in soft computing	New developments of stochastic models and their applications	New advancement in mathematical physics
Recent trends and challenges in operations research	Application of complex analysis in engineering science and technology	Numerical aspects of partial differential equations	Statistical modelling and inference
Aspects of Quantum computation in science and engineering	Nonlinear dynamics in complex systems		

About EAMSEST-2022

The aim of the STTP is to bring together college lecturers/assistant professors and researchers in the early stages of their individual careers who work in various fields of engineering sciences. Participants will be able to study the new prominent areas of Mathematics and Statistics while also gaining practical experience with scientific programming. The present short-term course is intended to explore some of the interesting topics in Mathematics, Statistics, and Computer science, as well as their cutting-edge applications in modern state-of-the-art technology. This online program will certainly boost the knowledge and enhance the career of the participants. The programme includes invited lectures and practical sessions by notable mathematicians, outstanding engineers, and renowned scientists.

Patron
Prof. K. Umamaheshwar Rao, Director, NIT Rourkela

Chairman & Convener
Prof. S. Saha Ray, NIT Rourkela

Co-Convener
Prof. S. Kayal, NIT Rourkela

Coordinators
Prof. R. Mehatari, NIT Rourkela

Advisory Committee

Prof. H. M. Srivastava, University of Victoria, Canada

Prof. R. P. Agarwal, Texas A&M University-Kingsville, USA

Prof. F. Liu, Queensland University of Technology, Australia

Prof. R. K. Bera, National Institute of Technical Teacher's Training and Research, Kolkata, India (Retired)

Prof. Rudolf Hilfer, Institut für Computerphysik, Universität Stuttgart, Germany

Prof. Adem Kılıçman, University Putra Malaysia, Malaysia

Prof. Xiao-Jun Yang, China University of Mining and Technology, China

Prof. H. Jafari, University of South Africa, South Africa

Prof. D. Baleanu, Cankaya University, Turkey

Prof. T. Raja Sekhar, IIT Kharagpur, India

Confirmed Speakers

1. **Professor Ponnusamy Saminathan,** Indian Institute of Technology Madras
2. **Professor A. K. Pani,** Indian Institute of Technology Bombay
3. **Professor Somnath Bhattacharyya,** Indian Institute of Technology Kharagpur
4. **Professor Satyajit Roy,** Indian Institute of Technology Madras
5. **Professor Suman Chakraborty,** Indian Institute of Technology Kharagpur
6. **Professor S. Dharmaraja,** Indian Institute of Technology Delhi
7. **Professor Niladri Chatterjee,** Indian Institute of Technology Delhi
8. **Professor Guruprasad Kar,** Indian Statistical Institute, Kolkata
9. **Professor C. K. Jaggi,** University of Delhi
10. **Professor T. K. Kar,** Indian Institute of Engineering Science and Technology, Shibpur
11. **Professor Sandip Banerjee,** Indian Institute of Technology, Roorkee
12. **Professor Aditi Sen De,** Harish-Chandra Research Institute (HRI), Allahabad
13. **Professor Ujjwal Sen,** Harish-Chandra Research Institute (HRI), Allahabad
14. **Professor S. Saha Ray,** National Institute of Technology Rourkela
15. **Dr. T. Raja Sekhar,** Indian Institute of Technology Kharagpur
16. **Dr. Vidyottama Jain,** Central University of Rajasthan
17. **Dr. R. Sudhesh,** Bharathidasan Institute of Technology, Anna University
18. **Dr. Sachin Kumar,** Central University of Punjab
19. **Dr. S. Kayal,** National Institute of Technology Rourkela
20. **Dr. R. Mehatari,** National Institute of Technology Rourkela

Important Dates

Start date of Registration of application form	December 15th, 2021
Last date of Registration of application form	April 22th, 2022
Confirmation of Participants	April 29th, 2022
Dates of Programme	May 9th-13th, 2022

Registration Fees

Registration Fee Details:

Categories	National
Student	INR 1000 + 18% GST
Academicians	INR 2000 + 18% GST
Industry Professional	INR 4000 + 18% GST
Other Delegates/Attendee	INR 2000 + 18% GST

Mode of Payment

Payment is accepted only in the form of Demand Draft in favour of "Conference NIT Rourkela" payable at Rourkela, India. However, online payment mode is also available. For online payment please note the following bank details :

STATE BANK OF INDIA
NIT CAMPUS; ROURKELA-769008
Name of Account Holder: CONFERENCE, NIT ROURKELA
Account Number: 36734418111
Swift Code: SBININBB137
IFSC Code: SBIN0002109

Contact Details

Chairman & Convener (EAMSEST-2022)

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Co-convener (EAMSEST-2022)

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Online Short Term Training Program (STTP)
Emerging Applications of Mathematics and Statistics in Engineering Science and Technology (EAMSEST-2022)

Through Hybrid (online and offline mode)

National Institute of Technology Rourkela
Rourkela 769008, Odisha, India

Registration Form

Name (Prof./Dr./Mr./Mrs./Ms.): ……………...………………..

Sex: Male/ Female

Date of Birth (DD/MM/YYYY)..........…../……..……./……...............…… Contact Number: ……………………………………………….

Email ID: ……………………………….............………... Highest Qualification: ……………………......................

Current Institute: …………………………………………………………………….....................................…………

Affiliation:...

....

Contact Address: ....

....

Registration Fees (Non Refundable): ....

Category: Academician/Industry Professional/Research Scholar/Student

Mode of Payment: Online Transfer/Demand Draft

(DD No. and Date.../Transaction ID: ……………...………)

Place: …………………………….   Signature: ………………………..

N.B.: Correspondence will be done preferably via e-mail, but hardcopy/DD has to be sent by reliable courier/speed post to the Co-convener Professor S. Kayal, NIT Rourkela. Envelope should be super-scribed as "EAMSEST-2022".