



## TWO DAY INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE: INNOVATION, OPPORTUNITIES AND CHALLENGES – 2024 (SIIOC – 2024)

ON

THURSDAY, 25<sup>th</sup> APRIL 2024 &  
FRIDAY, 26<sup>th</sup> APRIL 2024.



Organized by

**NATIONAL INSTITUTE OF TECHNOLOGY  
KARNATAKA, SURATHKAL**

Website: <https://siioc.nitk.ac.in/> (under development)

### Organizing Secretary

Dr. Raviraj H M, Dr. Sreevalsa Kolathayar and Dr. Pavan G S,  
Department of Civil Engineering, NITK Surathkal.

### VENUE

**NATIONAL INSTITUTE OF TECHNOLOGY  
KARNATAKA (NITK), SURATHKAL, MANGALORE -  
575 025, INDIA.**

### NITK, SURATHKAL

National Institute of Technology Karnataka (NITK), Surathkal is an Institute of National importance that was established as Karnataka Regional Engineering College (KREC) in the year 1960. Nine undergraduate programmes in different disciplines leading to B.Tech. and M.Tech., M.Tech.(Research) and doctoral degree programmes in a wide range of specializations are being offered by the departments, school and centres.

NITK is located at Surathkal, about 20 kms north of Mangaluru city on NH66, on way to Udupi and Goa. NITK is well connected by air, rail and road. Mangalore International Airport, Mangalore Junction railway station, Mangalore Central Railway and Mangalore central bus stand are within 20 kms from the Institute. The world-famous temple town Udupi is about 30 kms away. The sprawling 300 acres of the campus is divided to the east and west side by NH66 with lots of greenery and interesting interiors and exteriors lined by the great Arabian sea on the west.

### DEPARTMENT OF CIVIL ENGINEERING

The department was established in the year 1960 with a UG programme in Civil Engineering. Now in addition to B.Tech. (Civil) the Department also offers master's degree programme in Construction Technology and Management, Environmental Engineering, Geotechnical Engineering, Structural Engineering and Transportation Engineering and Ph.D. programme. The Department is engaged in various Research & Development Projects funded by MHRD, MoEF, DST, BARC, BRNS. Testing, consultancy services, industry interaction, continuing education programmes, R&D activities at the department have benefited and promoted inclusive all-round development of the industry and stake holders in the region.

### CONFERENCE OBJECTIVE

The conference provides a platform for deliberations on developing solutions that mitigate the impact of infrastructure on ecology and environment. Research and case studies on challenges, underlying opportunities and innovative ideas for the development of sustainable infrastructure will be presented and discussed.

### CONFERENCE THEMES

The Conference is focused on the following themes in general, but not limited to:

1. Low carbon building technologies and affordable housing
2. Novel structural analysis and design methodologies
3. Innovations in composite structures
4. Seismic resilient infrastructure
5. Utilization of industrial wastes for construction
6. Design & construction approaches for green highways
7. Road user safety & traffic mitigation for sustainable highways
8. Urban transport systems and traffic management
9. Financing infrastructure projects
10. Challenges for Soil improvement & Ground stabilization
11. Sustainable Cities
12. Disaster Risk Reduction
13. Innovations in Foundation Design
14. Dam Engineering
15. Computational, Analytical and Numerical Modelling
16. Conservation of heritage structures
17. Retrofitting & Rehabilitation of structures
18. Earthquakes & Landslides
19. Transportation Geotechnics
20. Disaster Risk Reduction

### WHO SHOULD ATTEND

Students, Faculty members, Professionals from industry, Administrators and Policy makers.

### CALL FOR PAPERS

Research papers are invited from all prospective authors. Authors are requested to submit an abstract of not more than 300 words within the deadline. Abstract can be submitted using the Google form link in the conference website (<https://siioc.nitk.ac.in/>, under development). Upon acceptance of abstract, link for uploading the full-length paper shall be shared with the authors. Full length papers submitted will be peer reviewed by the technical committee. **Selected papers from the conference will be published as conference proceedings. Effort will be made to publish select papers of the conference as Scopus indexed book chapter in the conference proceedings book volume.**

## IMPORTANT DATES

Submission of Abstract	: 5 <sup>th</sup> Mar, 2024
Acceptance of Abstract	: 15 <sup>th</sup> March, 2024
Last date for Registration	: 25 <sup>th</sup> March, 2024
Submission of Full-Length Paper	: 30 <sup>th</sup> March, 2024

## REGISTRATION FEES

Particulars	Fees including GST
Faculty	INR 5900
Faculty of NITK	INR 5000
Industry/Research participants	INR 5900
International participants	USD\$ 75 (Online mode), USD\$ 150 (Offline mode)
Students	INR 3540
Students of NITK	INR 3000

\*For registration use the form attached.

Travel and accommodation need to be arranged by the participants. Registration fees includes registration kit, working lunch and tea during break.

For oral presentation, presenting author must register for the conference. At least one author must register for the conference for the full-length paper to be included in the conference proceedings.

## CONTACT

Department of Civil Engineering  
NITK Surathkal, Srinivasnagar, Mangalore.  
Email: [siioc2024@nitk.edu.in](mailto:siioc2024@nitk.edu.in)

## ORGANIZING COUNCIL

Chief Patron: Prof. B. Ravi  
(Director, NITK)  
Patrons: Prof. Subhash C Yaragal  
(Head, Department of Civil Engineering, NITK)  
Organizing Secretary: Dr. Raviraj H M., Dr. Sreevalsa  
Kolathayar and Dr. Pavan G S  
(Department of Civil Engineering, NITK)

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Dr. Varghese George, Dept. of Civil Engg., NITK

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Dr. Adani Azhoni, Dept. of Civil Engg., NITK

## ABSTRACT/PAPER SUBMISSION

Abstract/Paper submission shall be made through google form submission. Link is available in conference website <http://siioc.nitk.ac.in/> (under development)

## REGISTRATION FORM

**TWO DAY INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE: INNOVATION, OPPORTUNITIES AND CHALLENGES– 2024 (SIIOC – 2024)**  
Thursday, 25<sup>th</sup> April 2024 & Friday, 26<sup>th</sup> April 2024.

Name:

Prof./Dr./Mr./Mrs. \_\_\_\_\_

Designation & Address: \_\_\_\_\_

Registration fee ₹ \_\_\_\_\_

Payment mode: Online

Beneficiary Name: NITK SURTHKAL

Account Number: 37772503911

State Bank of India, NITK Campus Srinivasnagar  
IFSC: SBIN0002273

UTR number: \_\_\_\_\_

Signature of Participant

This to certify that, the above-mentioned participant is employee/ student of our institute /organization.

Date: \_\_\_\_\_

Signature and Seal of Head of  
Department/Section