



**3<sup>rd</sup> International Virtual Conference on**

**“Civil Engineering Trends and Challenges for  
Sustainability (CTCS 2021)”**

**(Under the Aegis of ICETE 2021 – A multiconference platform)**

November 19<sup>th</sup> – 20<sup>th</sup>, 2021

Organized by

**Department of Civil Engineering**



(An Autonomous Institution affiliated to VTU, Belagavi)

NITTE - 574 110, Karkala Taluk, Udupi District, Karnataka, India

ISO 9001:2015 Certified, Accredited by NAAC with 'A' Grade

Phone: 08258-281264; Fax:08258-281265

Website: <http://www.icete-nitte.in/>

<http://www.ctcs2021.in>

## About N.M.A.M. Institute of Technology

Nitte Mahalinga Adyanthaya Memorial Institute of Technology (NMAMIT), affiliated to VTU, Belagavi, an autonomous Institution offering UG, PG and Doctoral programmes. It is a unit of Nitte Education Trust, Mangalore. It currently offers 9 UG programmes in Engineering, 8 PG programmes, MBA and MCA programmes. All the UG programmes are accredited by NBA, New Delhi. The Institute is ISO 9001:2015 certified and also accredited by NAAC, New Delhi with A grade. The institute is ranked 133<sup>rd</sup> in the NIRF ranking (Engg. Institutes)-2020, Govt. of India. Atal incubation centre supported by NITI AAYOG, Government of India is situated in the campus.

## About the Civil Engineering Department

The Civil Engineering department started in 1987 with a UG Programme with an intake of 60. Annual Intake has been increased to 120 from the academic year 2012-13. Two year Post Graduation degree programme M.Tech in Construction Technology was started in 2010 with an intake of 18 and M.Tech in Structural Engineering in the year 2017 with an intake of 24. It is also recognized as a Research Centre offering M.Sc. (Engg.) and Ph.D. programmes. Presently 12 research scholars are pursuing their Ph.D. in the department. The department has been accredited by NBA for 3 years. In addition to this, the Departmental Students Association (OCEAN) organizes seminars, workshops, educational tours, design competitions for civil engineering students. The department is undertaking consultancy in quality control and structural design. The department is recognized as IIRS (ISRO) Outreach Centre. The department has taken up Karnataka State Council for Science & Technology (KSCST) funded projects. Department is also working on Development of Masonry blocks and Paver blocks using Industrial waste materials under Karnataka New Age Incubation Centre, NMAMIT funded by Dept. of IT, BT, S & T, Govt. of Karnataka.

## Objective of the Conference

NMAMIT is organizing online International Conference on Emerging Trends in Engineering (ICETE 2021) on November 19<sup>th</sup> & 20<sup>th</sup> 2021, which is the 11th International Conference since 2011. For the year 2021, in order to focus on the specific issues associated with various Engineering disciplines, the idea of a Multi Conference Platform had been proposed.

International Conference on Emerging Trends in Engineering (ICETE 2021) - A Multi Conference Platform, will be a collection of several International Conferences with the themes specific to various engineering streams. Besides, there will be an opportunity for students and research scholars of various branches of Engineering & Technology, and industrial professionals to deliberate, present and discuss research papers.

### Keynote Speakers

Eminent researchers, academicians and industrialists will be delivering online keynote address on topics pertaining to the major themes of the conference. The list of keynote speakers and related details will be updated in the website.

### Conference location

The Institute is located on the Padubidri - Karkala State Highway (SH01) which is 10 km away from Karkala, well connected with Mangalore (60 km) and Udupi/Manipal (45 km) through NH66 & NH169. The participants can alight at Mangalore or Udupi Railway Stations/Bus Terminals or Mangalore Airport to reach the Institute.

### Theme of the Conference and Thrust Areas

Original research papers on the following indicative topics, but not limited to, are welcome to be submitted for the conference.

<b>Th.1</b>	<b>Sustainable Construction Technology &amp; Building Materials</b>	Risk Analysis, Safety and Security, Building Materials, Masonry Structures, Sustainable construction practices, Sustainable construction materials, Composite and Smart Materials, Energy Engineering and Management, Advanced and Smart Manufacturing, Sustainable and Clean manufacturing process, Sustainable Building technologies, and special concretes.
<b>Th.2</b>	<b>Recent Advances in Structural Engineering</b>	Earthquake Engineering, Concrete, Steel & Timber Structures, Structural Health and Monitoring, Coastal Engineering, Advances in precast and pre-stressed concrete engineering, Strengthening and repair, Composite structures, Integrated Design Systems / Building Information Modelling / Life cycle design, advanced methods and innovative approaches in structural analysis and design, Artificial Intelligence in structural engineering applications.

<b>Th.3</b>	<b>Recent Advances in Transportation Engineering</b>	Pavement Materials, Highway design principles, Pavement design, Highway Drainage, Pavement Management systems, Traffic planning, Highway safety, Advances in urban transport, Bridge Engineering. Advances in Airport Engineering, Artificial Intelligence, Utilisation of waste materials in pavement Construction, Tunnel Engineering, Railway Transit, Harbour and Port Engineering.
<b>Th.4</b>	<b>Recent Advances in Geotechnical Engineering</b>	Soil stabilization material and methods, Computational Geo-techniques, Advances in soil and rock mechanics, modelling and simulation, Reinforced earth structures and materials, Slope stability, landslides and natural disaster mitigation, Sustainable Geo-techniques, Uncertainties, risk and reliability in geotechnical engineering, Soil-structure interaction, Liquefaction, Design and Analysis of foundations, Environmental geo-technology.
<b>Th.5</b>	<b>Recent Advances in Environmental Engineering</b>	Waste Management, Reuse & Recycle technology, Water quality assessment and modelling, Urban water and drainage management, Environmental impact assessments, Pollution prevention technology, Sustainable Environment Management, Waste to Energy (WTE) Technology, Emerging Green Energy Technologies, Greening Urbanization and Settlements, Disaster Management, Energy and Health, Rural Development through Green Energy, Green economy, Policy perspective on Sustainability.
<b>Th.6</b>	<b>Recent Advances in Water Resources Engineering, RS &amp; GIS Applications</b>	Groundwater hydrology, Groundwater modelling and management, Hydraulic and hydropower structures, Hydrometeorology, Irrigation and drainage management, Reservoir operation and downstream issues, Remote sensing & Geographical Information system, Satellite image analysis & Aerial photometry, Infrastructure Management, weather monitoring, Effects of Climate Change.
<b>Th.7</b>	<b>Recent Advances in Earth Sciences</b>	Earth science, Geology, Oceanography and Marine Biology, Geology, Soil and Water Science, Human Ecology, Earth's materials, structures, processes and organisms change over time.

## Call for papers

CTCS 2021 warmly invites original research papers describing their latest findings & research work to the conference from academic/industry professionals, R&D organizations & departments and researcher scholars across the globe. The manuscript should contribute original research ideas, analysis & findings. The manuscript should not have been published in any journals or conference proceedings or magazines and not under review in any of them.

Full-length manuscripts should be submitted through Easy Chair Conference Management System. The accepted manuscripts, after peer review process, will be considered for conference presentation. Further, the presented papers will be considered for the Scopus indexed publication. Authors should submit the full-length manuscript as per prescribed format. Visit conference website for manuscript template and paper submission links.

## Important dates

<b>Submission of Full-length manuscript – Open</b>	<b>: 30/04/2021</b>
<b>Last date to Submit Full-length manuscript</b>	<b>: 10/09/2021</b>
<b>Notification of acceptance</b>	<b>: 01/10/2021</b>
<b>Submission of camera-ready Manuscript</b>	<b>: 15/10/2021</b>
<b>Last Date for Registration</b>	<b>: 15/10/2021</b>

## How to submit research paper?

The papers are to be submitted through Easy Chair Conference Management Tool <https://easychair.org/conferences/?conf=ctcs2021>. Queries related to the conference may be sent to [ctcs.nmamit@nitte.edu.in](mailto:ctcs.nmamit@nitte.edu.in).

1. All the abstracts of the presented papers will be published in CTCS proceedings.
2. All papers submitted to the conference were subjected to peer review through the Scientific Review Committee.
3. Revised articles, accepted and presented in the conference are further subjected to reviews and the selected papers will be forwarded to the Scopus indexed SPRINGER publication. The publisher may review the papers once again before the final acceptance for the publication.
4. There are no extra charges for publication.

## Paper Formats & Ethics

All papers will be reviewed by Scientific Review Committee to check the quality of the paper and to avoid plagiarism. The paper should be written in English and presented in standard Springer paper template, available at conference website.

## Registration Fee

The registration fee can be paid through NEFT.

Registration fee for academic / industry professionals, R & D organizations & departments and researcher scholars / PG / UG Students:

INR Rs. 1,500/- for Indian Delegates & USD \$25/- for Foreign Delegates.

## NEFT/RTGS details

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## Contact us

### Program Chair

**Dr. Arun Kumar Bhat**

Professor and Head of Civil Engineering Department

Ph: +91 9893731189

Email: [hodcv@nitte.edu.in](mailto:hodcv@nitte.edu.in)

### Conference Secretaries

**Dr. Shriram Marathe**

Dept. of Civil Engg,

NMAMIT, Nitte

Ph: +91-9972772333

Email: [shrirammarathe@nitte.edu.in](mailto:shrirammarathe@nitte.edu.in)

**Mr. Thushar S. Shetty**

Dept. of Civil Engg,

NMAMIT, Nitte

Ph: +91-9880667995

Email: [shettythushar@nitte.edu.in](mailto:shettythushar@nitte.edu.in)

### Postal Address

Department of Civil Engineering,  
NMAM Institute of Technology, Nitte - 574110,  
Karkala Taluk, Udipi District (Karnataka State), India.



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