PATRONS

Smt. Sumanmala Mulak
Chairperson, BCYRC, Nagpur

Shri. Rajendra B. Mulak
Ex- Minister, Govt of Maharashtra & Secretary, BCYRC

Shri. Yashraj R. Mulak
Treasurer, BCYRC, Nagpur

CONFERENCE CHAIR

Dr. Valsson Varghese
Principal, KDKCE, Nagpur

CONFERENCE CO-CHAIR

Dr A. M. Badar, Vice Principal, KDKCE, Nagpur
Dr. Ravindra J. Ringshia, President, ASCE-Indian Section
Er. Satish Raipure, Chairman IEI, Nagpur Local Centre
Er. P. P. Deshpande, Chairman, ICI Nagpur Chapter
Dr. Sarang Paranjape, Chairman ACCE-NC
Dr. O. N. Mukharjee, Chairman, IWWA-Nagpur Centre

CONVENER

Dr. Swapneel R. Satone
Head, Dept. of Civil Engg, KDKCE & Chairman-Elect ICI Nagpur Centre

Prof. Mahendra Umare
Asst. Prof., Dept. of Civil Engineering, KDKCE

CO-CONVENER

Dr. Pallavi U. Bisen
Asst. Prof., CED, KDKCE

Dr. Vinayak Vaidya
Asst. Prof., CED, KDKCE

ORGANISING SECRETARY

Dr. Ashay D. Shende
Asst. Prof., CED, KDKCE

Dr. Balbir Singh Ruprai
Asst. Prof., CED, KDKCE

JOINT ORGANISING SECRETARY

Dr. Anshul R. Nikhade
Asst. Prof., CED, KDKCE

Prof. D. B. Awachat
Asst. Prof., CED, KDKCE

INTERNATIONAL ADVISORY COMMITTEE

Dr. K. N. Gunalan, Ex-President, American Society of Civil Engineers (ASCE)
Dr. Ranjit Dissanayke, President, IE Sri Lanka & Prof., Uni. of Peradeniya, SriLanka
Dr. Mani Golparvar-Fard, Associate Professor, University of Illinois, USA
Dr. Umesh Sharma, Professor, Indian Institute of Technology (IIT), Roorkee, India
Dr. Indubhushan Patnaikuni, RMIT, Melbourne, Australia
Er. Lim Kie Yong, Director, MATCOR Technical Services, Singapore
Dr Sudhir Kumar Barai, Director, BITS Pilani
Dr.T.I. Eldho, Professor, IIT Bombay
Dr. K.V.L.Subramanian, Professor, IIT Hyderabad
Dr. Philip P. Ermita, Dean, College of Engineering, Laguna, Philippines
Mahdi O. Karkush, CoE, University of Baghdad, Al- Jadiriah, Baghdad- Iraq
Ronald L. Orale, VP, Samar State University Philippines

NATIONAL ADVISORY COMMITTEE

Dr. Prashant Bokare, Vice Chancellor,Gondwana University,Gadchiroli
Dr. H.D. Chandewar, National GC Member, ICI
Dr. Bhimaraya Metri, Director, IIM-Nagpur
Dr. Premlal Patel, Director VNIT Nagpur
Dr. O.R. Jaiswal, Director, NIT Goa
Dr. Manoj Daigawane, Joint Director, DTE, Nagpur
Dr. A Srikant, Ex Professor, IIT Kharagpur
Dr. Ravi Sinha, Professor, IIT Bombay & Past President, ASCE-ISWR
Dr. Umesh Sharma, Professor, IIT, Roorkee, India
Dr. Bishwajit Bhattacharjee, Professor, IIT, Delhi
Dr. Rajeev Gupta, Ex.Sr. Professor, BITS Pilani
Dr Pradeep Kumar R., IIIT Hyderabad
Dr. N. Rajmane, Ex Chairman, CACR, Chennai
Dr. A.D. Pofale, Ex-Professor, VNIT
Dr. R.K. Ingle, Professor, VNIT, Nagpur
Dr. D.K. Parbat, Head (CED), GP, Nagpur
Er. M.A.Kawalkar, National President-Elect, ICI
Dr. A.D.Ghare, Professor, Deptt of Civil Engg, VNIT, Nagpur
Dr. Rahul Ralegaongar, Professor VNIT
Er. P.S.Patankar, Stuctural Consultant, Nagpur
Er. Shantilal Jain, Stuctural Consultant, Mumbai
Dr. Sandeep Shirkhedkar, Director, imaGIS Engg. Solutions Pvt. Ltd., Nagpur
Er. Sunil Voditel, Structural Consultant, Nagpur
Dr. U.P.Waghe, Principal, YCCE, Nagpur
Dr. Mrs.S.Valsson, Ex Principal, SDMCoA, Nagpur
Dr. K.C.Tayde, Chief Quality Control, NMRCL
Dr. Girish H. Pophali, Senior Principal Scientist, CSIR-NEERI, Nagpur,
Dr. Mona N. Shah, Ex. Dean, NICMAR & RICS of Sch. of Built Env., Amity University
Dr. S.B. Thakre, Principal, AISSM's APCoE, Pune
Dr. Mangesh Madurwar, VNIT, Nagpur
Dr. Manmohan Goel, VNIT Nagpur

ORGANISING COMMITTEE

Dr. S. S. Ambekar, HoD, Elecrtical Deptt, KDKCE
Dr. P. D. Khandait, HoD, Electronics & Telecommunication, KDKCE
Dr. A. A. Jaiswal, HoD, Computer Science and Engineering, KDKCE
Dr. S. P. Khandait, HoD, Information Technology, KDKCE
Dr. G. H. Agrawal, HoD Basic Science& Humanities, KDKCE
Er. Bhagwat Patil, Secretary ICI-NC
Er. Prashant Kathale, Secretary ACCE-NC
Dr. Mahesh Shukla, Secretary, IEI(I)- NLC
Dr. Isha Khedikar, Secretary, IWWA-NC
Dr. N. R. Dhamge, Dean Academic, KDKCE
Dr. A. P. Fartode, Dean Admission, KDKCE
Dr. S. R. Ikhar, HoD Mechanical, KDKCE
Dr. S. M. Malode, HoD AI&DS, KDKCE
Ms. Rutuja Budhe, HoD, MBA
Dr. A.D. Bhange, HoD, MCA, KDKCE
Dr. C. S. Dhanjode, Asstt. Prof. CED, KDKCE
Er. Shailendra Karale, Treasurer ICI-NC
Er. Kirat Mundle, Treasurer, ACCE-NC

Two-Days International Conference
on

Next-Generation Infrastructure: "Green Technologies, Smart Cities, and Sustainable Energy Solutions"

(Hybrid Mode)

(IC-NGI-GSS-2025)

Date : 9th & 10rd May'2025

Organized By

Department of Civil Engineering
K. D. K. College of Engineering, Nagpur
(An Autonomous Institute)

In Association with

American Society of Civil Engineers, Indian Section- Western Region (ASCE-ISWR)
Indian Society for Technical Education, New Delhi
Institution of Engineers India, Nagpur Local Centre (IEI-NLC)
Indian Concrete Institute, Nagpur Chapter (ICI-NC)
Indian Water Works Association, Nagpur Centre (IWWA-NC)
Association of Consulting Civil Engineers, Nagpur Centre (ACCE-NC)

Venue
K.D.K. College of Engineering
Great Nag Road, Nandanvan, Nagpur-24 (Maharashtra) India
Phone: 0712-2711400, 2710030, +91 9850346295
Website: www.kdkce.edu.in; Email: valsson_v@yahoo.com

About KDKCE

K.D.K.College of Engineering, Nagpur, an Autonomous Institute, is established in 1984, approved by AICTE, New Delhi and Director of Technical Education, Maharashtra and affiliated to RashtrsantTukadojiMaharaj Nagpur University, Nagpur. Government of Maharashtra has conferred 'A' Grade on the basis of excellence & adequate infrastructure as well as academic achievements of students and faculty. The college runs Seven Undergraduate B. Tech. CoursesCivil, Mechanical, Electrical, Computer Science & Engineering, Electronics and Telecommunication, Information Tech, Artificial Intelligence& Data Science, BCA and Four Postgraduatecourses in Structural Engineering, MCA and Master of Business Administration with total Intake capacity of 756. 05 programmes are accredited by National Board of Accreditation (NBA), and KDKCE is also accredited by National Assessment & Accreditation Council (NAAC). The college has many achievements in the academic fields wherein staff and students have excelled in various domains.The Vision of College is "Service to the Society through Quality Technical Education".

The Department of Civil Engineering has intake of 60 studentsin UG and 18 in PG courses. Civil Department is a place of Research leading to Ph.D. by RTM Nagpur University. Civil Department undertakes consultancy and R&D activities. The department has conducted One AICTE sponsored All India Seminar Retrofit-2014, Three International Conferences ETSE-2017, IRICE-2018, AICE-2021, CISD-2024,International STTP- ATMCE-2020, NAAC sponsored National Conference NEQ-2021, AICTE sponsored SPICES for students.

During the Pandemic period, the dissemination of knowledge among the fraternity had been carried out by conducting online 24 e-Talks, Quiz exercises andone International Short Term Training Program. The Expert speakers were the eminent personalities from IITs, NITs, and Professionals and even from abroad.

The departmental staffsare sponsored / deputed to various reputed Institutes / industries for attending various Continuing Educationprogrammes to enhance the expertise in their respective fields. The staffs participate in various Workshops and Seminars and publish their research works in Journals, Seminars and Conferences.

About the Nagpur City and The Guest Speakers:

Nagpur is well connected with the important cities of the country and the world by international airways. It is also a center of India and well connected by Rail, Airway. The professional and academic credentials of keynote speakers shall be of high standards so as to impart maximum benefits to the participants.

About the Conference

The need for Next Generation Infrastructure (NGI) arises from the rapid advancements in technology, urbanization, and the increasing demand for efficient and sustainable systems. Next-generation infrastructure refers to the evolving systems and technologies designed to meet the demands of a rapidly changing world. These advancements go beyond traditional infrastructure, incorporating innovations in digital technologies, sustainability, and resilience to create more efficient, adaptable, and future-proof systems. The next generation of infrastructure represents a shift towards intelligent, sustainable, and resilient systems that are adaptable to the challenges of the future. These innovations promise not only to enhance the efficiency and functionality of cities, industries, and nations but also to improve the quality of life for individuals globally. The integration of AI, renewable energy, and smart technologies will be crucial in creating infrastructure that can meet the needs of a growing population and address pressing global challenges.

Sub-themes : Following are the subthemes but not limited to

1. **Green Technologies & Environmental Sustainability**
   - Sustainable Construction Materials & Techniques
   - Green Buildings & Net-Zero Energy Structures
   - Carbon Footprint Reduction & Climate Resilience
   - Waste Management & Circular Economy
   - Water Conservation and Smart Resource Management
2. **Smart Cities & Urban Development**
   - AI, IoT, and Big Data for Smart Infrastructure
   - Transit Oriented Development
   - Urban Planning & Resilient Cities
   - Smart Waste Management & Sanitation
   - Digital Twins & Smart City Governance
3. **Renewable & Sustainable Energy Solutions**
   - Solar, Wind, and Hybrid Energy Innovations
   - Energy Storage & Grid Integration
   - Hydrogen Economy & Fuel Cell Technologies
   - Decentralized and Community-Based Energy Solutions
   - Energy Efficiency & Demand-Side Management
4. **Infrastructure & Transportation**
   - Sustainable Public Transportation & EV Infrastructure
   - Smart Highways & Intelligent Traffic Systems
   - High-Speed Rail & Next-Gen Mobility Solutions
   - Infrastructure Resilience Against Climate Change
   - Autonomous Vehicles & Future Transport Networks
   - Integrated Transport Model
   - Personal Rapid Transit System
5. **Policy, Finance, and Governance in Sustainable Development**
   - Smart City Policies & Regulatory Frameworks
   - Financing Models for Green Infrastructure
   - Public-Private Partnerships (PPP) in Smart Development
   - Global Case Studies in Sustainable Urbanization
   - Role of Academia, Industry, and Government in Sustainability

Objectives

NGI represents a significant evolution beyond traditional infrastructure, leveraging cutting-edge innovations to address emerging challenges in society. Next Generation Infrastructure is not just about upgrading what already existsit's about reimagining the future of how we live, work, and move in a rapidly changing world.

The broad objectives of the conference are as follows

- To analyse the latest advancements in green technologies for next-generation infrastructure
- To investigate the role of smart cities in driving sustainable development
- To explore suitable energy solution that support resilient infrastructure.

Keynote Addressee

Dr. Atul N. Vaidya
Vice-Chancellor
LITU, Nagpur

Dr. Manmohan Kalgal
Joint President and Head
Technical Services, UltraTech Cement Ltd.

Dr. Sudarshan Kurwadkar
Professor
California State University Fullerton

Er. Simon Klint Berg
Co-founder and Head, Asia Pacific
COBOD International A/S
Denmark

Dr. Putul Haldar
Assistant Professor
IIT, Ropar

Dr. Vishal Thombare
Vice-President (West)
ICI

Call for Papers

NGI-GSS-2025 invites full length original research articles from research scholars, faculty, scientists and industry professionals from India and across the world.

Publication

All accepted papers will be published in Proceeding with ISBN and Journal with DOI. Few selected research papers will be sent for review and publication in SCOPUS,WoS, and ABDC journals subjected to the acceptance of the manuscript. The conference registration fee does not include the publication fee for SCOPUS, WoS, and ABDC journals. The publication fee will be collected separately. The details of the publication fee will be communicated to the authors.

List of Scopus/ WoS Journals

- Civil Engineering and Environmental Reports (ESCI-WoS)
- International Journal of Computational and Experimental Science and Engineering (Scopus)
- JP Journal of Heat and Mass Transfer (Scopus)

Registration Fees

	Indian		International $
	Online Participation	For Author	
UG/PG Students	500 ₹	1000 ₹	50 $
Research Scholar/ Academicians /Professional	750 ₹	1500 ₹	100 $

Scan for Registration

Registration Link

https://forms.gle/RvuHmbbp5omLawjR8

Important Dates

Last Date for submission of abstract - 15th April, 2025
Acceptance of the abstract - 20th April, 2025
Last Date for submission of Camera Ready paper - 30th April, 2025

Contact Details

Dr. Swapneel Satone
Convener
Contact No. 9823719908
e-mail : ic-ngi-gss2025@kdkce.edu.in

Prof. Mahendra Umare
Convener
Contact No. 9823423666
e-mail : ic-ngi-gss2025@kdkce.edu.in