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Vision of College is "Service to the Society through Quality Technical Education".

publishes their research works in Journals, Seminars and Conferences.

Dr. S.S. Ambekar. HoD Elecrtical, KDKCE Dr. P.D. Khandait, HoD E&TC, KDKCE Dr. A.A. Jaiswal, HoD CSE, KDKCE

IITs. NITs. Professionals and even from abroad.

About the Nagour City and The Guest Speakers:

to impart maximum benefits to the participants.

About the Conference

Themes/ Sub-themes

Geotechnical engineering

Earthquake-resistant design, ground

improvement techniques, landslide

Performance-based design, adaptive structures, disaster-resilient

Water resources engineering:

Flood control infrastructure, drought-

resistant water manage-ment,

Transportation engineering: Smart

and tunnels, sustainable traffic

roads and highways, resilient bridges •

climate-resilient dams.

management.

Structural engineering:

1. Infrastructure Resilience:

mitigation.

materials.

About KDKCE

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K.D.K. College of Engineering, Nagpur is established in 1984, approved by AICTE, New Delhi and Director of Technical Education,

Maharashtra and affiliated to Rashtrsant Tukadoji Maharaj 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 BTech. courses Civil, Mechanical, Electrical, Computer Science & Engineering, Electronics and

Telecommunication, Information Tech, Artificial Intellegence & Data Science and Four Post graduate courses in Structural Engg, and Mechanical Engineering Design, 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

The Department of Civil Engineering has intake of 60 studentsin UG and 18 in PG courses. Civil Deptt is a place of Research leading to

Ph.D. by RTM Nagpur University. Civil Deptt 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 International

During the Pandemic period, the dissemination of knowledge among the fraternity had been carried out by conducting online 24 e-

Talks, Quiz exercises and one International Short Term Training Program. The Expert speakers were the eminent personalities from

The departmental staff sare sponsored / deputed to various reputed Institutes / industries for attending various Continuing Education

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 Road, Rail, Airway. The professional and academic credentials of keynote speakers shall be of high standards so as

Critical infrastructure and sustainable development are two interconnected pillars essential for the progress and resilience of modern societies. Critical infrastructure encompasses the fundamental facilities, systems, and networks vital for economic stability, public safety, and national security. These include transportation, energy, water, communication, and healthcare systems. Concurrently,

sustainable development aims to meet the needs of the present without compromising the ability of future generations to meet their

own needs. Integrating sustainability into critical infrastructure planning and management is crucial for reducing environmental

impact, enhancing resource efficiency, and ensuring long-term viability. By adopting eco-friendly practices, optimizing resource allocation, and embracing renewable energy sources, societies can mitigate environmental degradation while fostering economic

growth and social well-being. The synergy between critical infrastructure and sustainable development is key to creating resilient and

prosperous communities capable of thriving in an ever-changing world. Governments, businesses, and individuals must collaborate to build and maintain infrastructure that meets present needs and aligns with environmental and social goals for a sustainable future.

mmes to ennance the expertise in their respective fields. The staff participates in various vvorkshops and Seminars and

STTP-ATMCE-2020, NAAC sponsored National Conference NEQ-2021, AICTE sponsored SPICES for student

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Er. A.R. Nikhade, Asstt. Prof. CED, KDKCE Dr. Rutuja Budhe, HoD MBA, KDKCE Er. D.B. Awachat, Asstt. Prof. CED, KDKCE













Announcement 1

Two-Days International Conference

"Critical Infrastructure & Sustainable Development" (Hybrid Mode)

(IC-CISD-2024)

Date: 22nd& 23rd March'2024



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 - (ASCE-IS) Department of Civil Engineering, University of Peradenia, SriLanka 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)

Institute for Engineering Research & Publication, Chennai (IFERP)

K.D.K. College of Engineering

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disciplines: Urban planning, environmental science, social •

Community engagement and participation: Incorporating public needs and concerns in design and • planning.

development. The aim of the Conference on CISD-2024 is to provide a platform for exchanging Technological advancements and Innovations on Scientific research for the Researchers, Scientist, Scholars, Academicians, Engineers as well as industrial professionals around the

world can share their knowledge, expertise and experiences in various concepts and innovations in the present scenario. The Key Objectives of Conference are

 To introduce the participants about the development occurring in local and global scenario and the need of robust • and sustainable infrastructural growth in the country

systems under various conditions

To introduce the participants about the technological • advancements in Critical Infrastructure Sectors. • To introduce the participants to latest application software

used in various civil engineering sectors

To introduced participants an effective tool in efficient project • To make participants understand and demonstrate the • To introduce the participants to the latest construction

Global knowledge exchange and technology transfer:

Sharing best practices and learning from international

Education and capacity building: Training future

generations of engineers for sustainable infrastructure

techniques used in analysis and design of various structural materials & testing and technologies for sustainability, energy efficiency and reduction of carbon foot print To make participants understanding and demonstrate the

professional ethics in Civil Engineering

Keynote Addressee









I.I.T., Bombay







Ex. Secretary, ASCE-ISWF

I.I.T., Hyderabad

Research Paper

Dr. Ronald L. Orale

CISD-2024 invites full length original research articles from research scholars, faculty, scientists and industry professionals from India and across the world. Submit the paper as per the template

· Indian Journal of Science and Technology https://www.indjst.org, Listed/Indexed in: Web-of-Science Centre for Construction & Architectural Excellence (CCAE) Journal

Sri Lanka

MAT Journal : https://matjournals.com/

Publication

All accepted papers will be published in Edited Book with ISBN, Book series, Few selected research papers will be published in SCOPUS, Web of Science and UGC CARE listed journals, DOI, after review. The conference fee does not include the publication fee for SCOPUS, WOS and UGC CARE listed DOI journals. The details of the publication fee will be communicated to the authors. Each author must register to Participate in Offline mode.

	Davidus Face			
Registration Fees		Indian		International \$
		Online Participation	For Author	international a
	UG/PG Students	500 ₹	1000 ₹	50 \$
	Research Scholar/	750 ₹	1500 ₹	100 \$

Contact Details **Prof. Mahendra Umare** Co-Convener Contact No. 9823423666 e-mail: ic-cisd2024@kdkce.edu.in

Registration Link

https://forms.gle/HrAngSXqi82ifa3c8

Important Dates

Acceptance of the abstract

Last Date for submission of abstract - 15th February, 2024 - 29th February, 2024 - 10th March, 2024 Last Date for submission of Camera Ready paper

2. Sustainable Construction and Materials:

Concrete technology: Low-carbon cement, recycled materials in construction, green infrastructure solutions.

 Steel and composite structures: Life cycle assessments, energyefficient fabrication methods, reuse and repurposing. Construction management: Lean 4. Infrastructure for Equity and

construction practices, waste minimization, green building . Advanced materials: Self-healing

materials, bio-inspired designs, intelligent materials for monitoring and control.

3. Smart and Data-Driven Infrastructure: Sensors and monitoring systems: Structural health monitoring, real-

time performance data collection. IoT and big data analytics: Predictive maintenance, optimized resource allocation, intelligent decision-making.

Digital twins and simulations: Virtual testing, performance

forecasting, anomaly detection. Cybersecurity and resilience: Protecting infrastructure from cyber threats and ensuring data security.

Quality of Life: Accessibility and inclusivity: Ensuring infrastructure caters to diverse needs and abilities.

Urban infrastructure and development: Sustainable cities. green spaces, resilient communities. Rural infrastructure development: Access to water, sanitation, and basic

services for all. Infrastructure finance and investment: Innovative models for funding sustainable infrastructure

Interdisciplinary Collaboration and Knowledge Sharing: Engineering with other