



2nd International Conference

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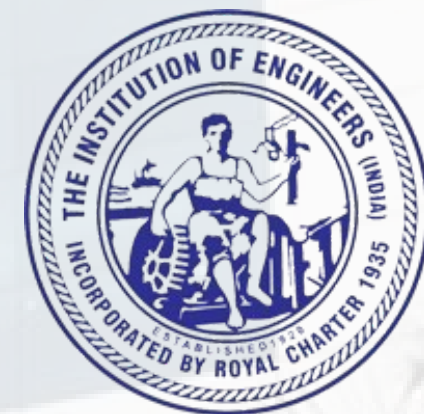
Innovations in Sustainable and Digital Construction Practices (ISDCP) 2026

5th & 6th February, 2026

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Organized by

Department of Civil Engineering

Dayananda Sagar College of Engineering

(An autonomous institution, affiliated to VTU, Belagavi, Karnataka)

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Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru – 560 111

Sustainable Development Goals

3 GOOD HEALTH AND WELL-BEING



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



11 SUSTAINABLE CITIES AND COMMUNITIES



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



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The conference will cover various aspects of Civil Engineering in the following thrust areas

A. Environmental Engineering & Sustainability

- Air Quality Monitoring and Control
- Climate Change Mitigation and Adaptation, Renewable Energy and Bioenergy
- Desalination and Water Purification Technologies
- Hazardous Waste Management
- Wastewater Treatment and Recycling Technologies
- Water Quality Monitoring and Modelling

C. Construction Management & Materials

- Building Information Modelling
- Smart Cities and Infrastructure Innovation
- Risk Management and Project Scheduling
- PPP Models and Construction Economics
- Smart and Nanomaterials

E. Transportation Engineering

- Sustainable and Green Transportation
- Road safety and human factors
- Transportation planning and policy
- Pavement Engineering and Materials
- Data Driven Transport System
- Transportation Equity and Social Impact

G. Interdisciplinary & Emerging Technologies

- AI/ML, IoT and Data Analytics in Civil Engineering
- Climate Resilient Infrastructure
- Circular Economy and Sustainable Development Goals (SDGs)
- Life Cycle Assessment in Civil Projects
- Smart Cities and Smart Planning
- 3D Printing
- Sustainable Technologies and Assessment

B. Geotechnical and Structural Engineering

- Digital Twins & Smart Geotechnics
- Geo-hazards & Risk Mitigation
- Forensic Geotechnical Engineering
- Sustainable & Innovative Practices in Geotechnical Engineering
- Geo-Environmental & Energy Geotechnics
- Resilient ground improvement

D. Water Resources & Hydraulics

- Groundwater and Surface Water Hydrology
- Urban Flood Management and Stormwater Design
- Integrated Water Resource Management (IWRM)
- Hydroinformatics
- Hydrological Models

F. Structural Engineering

- Seismic hazard analysis and retrofitting strategies
- Non-destructive testing techniques
- Repair, retrofitting, and strengthening techniques for aging infrastructure
- Heritage structure preservation and adaptive reuse
- Parametric and generative design techniques

H. Remote Sensing and GIS

- Satellite and drone-based monitoring for natural resource management
- GIS applications in urban planning, land use, and infrastructure, Environmental change detection and disaster management
- Remote sensing for agriculture, forestry, and climate resilience
- Geospatial data Emerging trends in LiDAR, SAR, GNSS, hyperspectral imaging, and real-time GIS

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Dayananda Sagar College of Engineering

Vision of the Institute

To impart quality technical education with a focus on Research and Innovation, emphasising on Development of Sustainable and Inclusive Technology for the benefit of society.

Mission of the Institute

- To provide an environment that enhances creativity and Innovation in pursuit of Excellence.
- To nurture teamwork to transform individuals as responsible leaders and entrepreneurs.
- To train the students to the changing technical scenario and make them to understand the importance of Sustainable and Inclusive technologies.

Dayananda Sagar College of Engineering, operating under the aegis of the Mahatma Gandhi Vidya Peetha Trust, is approved by the All India Council for Technical Education (AICTE), Government of India, and is affiliated with Visvesvaraya Technological University (VTU). The college offers a wide range of engineering programs, including 20 undergraduate and 6 postgraduate courses. Additionally, it hosts 20 research centres across various engineering disciplines, supporting Ph.D. scholars under VTU. Many of the programs are accredited by the NBA, NAAC, and ISO. The institute spans 23 acres and boasts extensive infrastructure, including state-of-the-art laboratories equipped with advanced instruments and machinery. The Central Library, along with a modern Digital Library, serves as a comprehensive knowledge resource for students. The campus is Wi-Fi enabled with high-bandwidth internet connectivity. The college has a strong faculty base known for their professional integrity and commitment to academics, ensuring transparency in all actions. Faculty members serve as mentors, providing personal guidance to students and contributing to their overall professional development. They are also research-oriented, with several sponsored R&D projects funded by esteemed agencies such as the Department of Science & Technology (DST), Defence Research and Development Organisation (DRDO), Indian Space Research Organisation (ISRO), and AICTE.

Department of Civil Engineering

Vision of the Department

To emerge as a centre of excellence providing globally competent engineers oriented towards research, innovation and sustainable development of society.

Mission of the Department

- To disseminate quality education and provide a research environment.
- To foster experimental and professional skills.
- To Inculcate the importance of ethics and sustainability.

The Department of Civil Engineering at Dayananda Sagar College of Engineering (DSCE), established in 1979, is distinguished for its comprehensive academic programs, cutting-edge facilities, and commitment to producing industry-ready professionals. The department offers a B.E. program with an annual intake of 180 students. The curriculum spans all major domains of civil engineering, including Structural, Geotechnical, Transportation, Environmental, and Water Resources Engineering. State-of-the-art laboratories for material testing, concrete technology, soil mechanics, surveying, and environmental engineering, complemented by advanced design and analysis software, provide students with a strong foundation in both theory and practice. The department is led by an experienced faculty team of academicians and industry experts dedicated to excellence in teaching, research, and innovation. Students benefit from field exposure, workshops, internships, and industry collaborations, ensuring a seamless integration of academic knowledge with real-world applications. Research and development are integral to the department, with consistent contributions in the form of publications, patents, and funded projects at national and international levels. The Department has received many funded research projects from various funding agencies, namely AICTE, ISRO, VTU, DST/SERB etc., and many consultancy projects in Environmental Engineering, Highway and Structural Engineering. The department also offers advanced academic programs, including doctoral studies and postgraduate degrees in Structural Engineering and Highway Technology.