



**Graphic Era**  
deemed to be **University**  
DEHRADUN



**SITARAM**  
2026

International Conference on

# Sustainable Intelligence Technologies And Advanced Research In Alternative Materials (SITARAM 2026)



October 9-10, 2026  
Graphic Era (Deemed to be University)

Mode —

**Hybrid**

Website —

[Sitaram.geu.ac.in](http://Sitaram.geu.ac.in)



**Brochure →**

Organised by  
Department of Civil Engineering  
Graphic Era (Deemed to be University) Dehradun



# About the University

**Graphic Era (Deemed to be University)** is the culmination of the hard work of its visionary founder, Prof. (Dr.) Kamal Ghanshala had the dream to change the destiny of thousands of youths through quality and holistic education. In 1993, he embarked on a mission to transform the higher education landscape of the Doon Valley, armed with twenty-nine thousand rupees in his pocket and a determination in his heart. His vision took concrete shape in 1996 with the establishment of the Graphic Era Institute of Technology (GEIT).

In 2008, it was accorded the status of a Deemed University under Section 3 of the UGC Act, 1956, vide Notification F.9-48/2007-U.3 (A) dated August 14, 2008, and approved by the Ministry of Human Resource Development, Government of India. Today, Graphic Era Deemed to be University stands tall as NAAC 'A+' accredited university with 7 NBA accredited programs and is ranked among the Top 50 Universities of India by

National Institutional Ranking Framework (NIRF), Ministry of Education with All India Rank 52 in the Engineering Category, All India Rank 52 in Management Category, and All India Rank 48 in the University Category. The premier university regards industry-academia partnerships as an integral part of its teaching methodology & curriculum, and has taken a significant initiative in engineering programs by entering partnerships with Tata Technologies and IBM.

Moreover, it hosts the Technology Business Incubator, which funds, mentors, and nurtures ideas, start-ups, and technology-based entrepreneurship. Graphic Era Deemed to be University has acquired transnational dimensions through student exchange and knowledge-sharing programs with many foreign universities and has been acclaimed and honoured at international forums for its brilliance in upholding the highest standards of education. The alumni of Graphic Era are making their mark worldwide in marquee brands like Apple, Google, Microsoft, and HSBC, to name a few, as well as serving the nation in all branches of the Armed Forces.



# About Conference

**The International Conference** on Sustainable Intelligence Technologies and Advanced Research in Alternative Materials (SITARAM 2026), scheduled to be held from 9-10th October 2026, is envisioned as a comprehensive academic forum addressing emerging challenges and innovations in civil engineering and allied disciplines. The conference aims to bring together researchers, academicians, industry professionals, and policymakers to exchange scientific knowledge, present original research, and discuss future directions in sustainable and intelligent infrastructure development.

**SITARAM 2026** places a strong emphasis on structural engineering and construction materials, with particular focus on performance-based design, structural resilience, seismic safety, and durability of infrastructure systems. Advanced and alternative construction materials, including supplementary cementitious materials, recycled aggregates, fiber reinforced composites, and low carbon binders, form a central theme of the conference. Discussions are expected to highlight material characterization, mechanical performance, long term durability, and life cycle-based sustainability assessment.

In the domain of geotechnical engineering, the conference addresses soil structure interaction, ground improvement techniques, foundation engineering, and geoenvironmental engineering. Special attention is given to smart monitoring systems, numerical modelling, and data-driven approaches for slope stability, underground structures, and infrastructure founded on problematic soils. The integration of intelligent sensing technologies and predictive analytics in geotechnical practice is expected to stimulate interdisciplinary research.

Water resource engineering constitutes another major track, covering hydrological modelling, flood risk assessment, groundwater management, and climate-resilient water infrastructure. Contributions related to smart water networks, remote monitoring of hydrological parameters, and sustainable urban drainage systems are encouraged. These themes are closely aligned with environmental

engineering and environmental science, with a focus on pollution control, waste management, air and water quality assessment, and circular economy concepts for infrastructure systems.

**Transportation engineering** sessions are designed to address traffic modelling, pavement engineering, intelligent transportation systems, and sustainable mobility solutions. Research on alternative pavement materials, performance-based evaluation, and the use of artificial intelligence in traffic management and safety analysis is particularly relevant.

**Remote sensing and GIS** are important cross-cutting themes at SITARAM 2026. Applications in infrastructure planning, disaster risk reduction, environmental monitoring, and urban growth analysis are expected to be extensively discussed. The integration of geospatial technologies into civil engineering decision-making supports data-driven, resilient infrastructure development.



# Theme of SITARAM 2026

## **AI/ML in Structural Engineering and Sustainable Construction Materials**

Advanced cementitious composites; high-performance and ultra-high-performance concrete; fiber-reinforced and nano-modified materials; recycled and low-carbon construction materials; structural health monitoring; smart and self-sensing materials; machine learning-based structural analysis and design; performance-based and resilience-oriented design; seismic, wind, and multi-hazard engineering; digital twins for structures; durability, fire, and extreme environment performance; life cycle assessment of structural systems.

## **AI-Based Geotechnical Modelling and Eco-Friendly Ground Materials**

Advanced soil and rock characterisation; smart sensors for ground monitoring; soil-structure interaction; ground improvement techniques; geo-environmental engineering; machine learning and artificial intelligence in geotechnical modelling; slope stability and landslide risk assessment; seismic geotechnics; foundation engineering under extreme loading; unsaturated soil mechanics; geosynthetics and sustainable geomaterials.

## **Smart Water Distribution and Climate-Resilient Smart Hydrology**

Hydrological and hydraulic modelling; artificial intelligence in flood forecasting and drought assessment; climate-resilient water infrastructure; smart water distribution systems; groundwater modelling and management; sediment transport and river engineering; urban stormwater management; real-time monitoring and decision support systems; the water-energy-food nexus; sustainable irrigation and watershed management.

## **AI-Enabled Traffic Engineering and Advanced Pavement Materials**

Smart and intelligent transportation systems; advanced pavement materials and performance modelling; sustainable and recycled materials in pavements; traffic flow modelling using artificial intelligence; infrastructure asset management; transportation safety and risk analysis; resilient transportation networks; digitalization and automation in construction and

maintenance; life cycle cost and environmental impact assessment; mobility planning under climate change.

## **Sustainable Wastewater Treatment and Environmental Impact of Civil Infrastructure**

Advanced materials for environmental remediation; solid waste management and resource recovery; air, water, and soil pollution modelling; artificial intelligence in environmental monitoring and control; sustainable construction practices; carbon capture and low-emission technologies; wastewater treatment and reuse; circular economy in civil infrastructure; environmental impact assessment; climate change mitigation and adaptation strategies.

**Remote Sensing and GIS for Smart Civil Infrastructure and NRM** Geospatial intelligence in civil engineering; satellite and UAV-based monitoring; GIS-based infrastructure planning; remote sensing for hazard assessment; land use and land cover analysis; urban growth and sustainability studies; flood and drought mapping; deformation and subsidence monitoring; integration of GIS with artificial intelligence; spatial data analytics; smart city applications; decision support systems using geospatial technologies.

## Publication Details:

- Plagiarism should be less than 15%, and AI-generated content must be zero.
- There is no publication fee.
- All accepted papers will be published in SCOPUS-indexed Journals, lecture notes series by Springer, AIP, IOP, etc.



# Organizing Committee

## Chief Patron —

### Prof. (Dr.) Kamal Ghanshala

Founder President, Graphic Era Group of Institutions, Uttarakhand

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## Patrons —

### Prof. (Dr.) V.K. Saraswat

Chancellor, Graphic Era (Deemed to be University), Uttarakhand

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Pro Chancellor, Graphic Era Group of Institutions, Dehradun, UK, India

### Prof. (Dr.) Narpinder Singh

Vice Chancellor, Graphic Era (Deemed to be University), Dehradun, UK, India

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## General Chair Committee —

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Pro-Vice Chancellor and Dean Academics, Graphic Era (Deemed to be University)

### Prof. (Dr.) D. R. Gangodkar

Dean International Affairs, Graphic Era (Deemed to be University), Dehradun, UK, India

### Prof. (Dr.) Bhaskar Pant

Director Research, Graphic Era (Deemed to be University), Dehradun, UK, India

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Prof. (Dr) Raaj Ramsankaran (IIT Bombay)  
Prof. (Dr) B. B. Das (NIT Surathkal)  
Prof. (Dr) Mohammed Arif (AMU)  
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Dr. Mizam Ahmed (Curtin University, Australia)

## Convenor(s) —

### Dr. Bheem Pratap

Civil Engg., GEU

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## Organizing Secretary(s) —

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Civil Engg., GEU

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HOD, Civil Engg., GEU

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Civil Engg., GEU

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Civil Engg., GEU

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Civil Engg., GEU

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## Publication Chair(s) —

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Civil Engg., GEU

### Dr. Deepshikha Shukla

Civil Engg., GEU

### Dr. Parveen Sihag

Civil Engg., GEU

### Mr. Rahul Vaishnava

Civil Engg., GEU

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Dr. Nitin Mishra  
Dr. Karan Singh  
Ms. Khushboo Uniyal  
Mr. Deepak Bahuguna  
Mr. Gaurav Singh  
Mr. Amit Kumar Sharma  
Mr. Kavindra Singh Dhami  
Mr. Rahul Vaishnava  
Mr. Deepak Kumar Singh  
Mr. Abhishek Singh

# Keynotes Speakers

**Prof. (Dr.) B.H. Rao**  
IIT Bhubneswer

**Prof. (Dr.) Julfikar Ahmed**  
IIT Roorkee

**Prof. (Dr.) Somenath Mondal**  
NIT Jamshedpur

**Prof. (Dr.) S. Madhuri**  
NIT Jamshedpur

**Prof. (Dr.) Ravindra v. kale**  
NIH, Roorkee

**Prof. (Dr.) Mizam Ahmed**  
Curtin University, Australia

**Prof. (Dr.) Bamidele Charles Olaiya**  
Kampala International University, Uganda

## Important Dates Paper Submission

Abstract Submission: **30th April 2026**

Abstract Acceptance: **15th May 2026**

Full Paper Submission: **25th May 2026**

Full Paper Acceptance: **25th June 2026**

Last Date of Reg.: **10th July 2026**

Date of Conference: **9th-10th October 2026**

Link for Paper Submission —

**[bit.ly/SITARAM26](https://bit.ly/SITARAM26)**



## Registration Fee

Delegates should complete the registration by paying the appropriate conference fee through the link:

Delegate Type	Indian (Online)	Foreign (Online)	Indian (Offline)	Foreign (Offline)
Student	₹3000	\$150	₹4000	\$250
Academician	₹4000	\$250	₹5000	\$340
Industry Professional	₹5000	\$400	₹6000	\$400

Non-refundable

## Mode of Payment

Account Name	Graphic Era (Deemed to be University) R & D
Bank Name & Address	Axis Bank, Saharanpur Road, Dehradun
Account Number (Savings)	919010071768467
IFSC Code	UTIB0002959
Branch Code	002959
MICR Code	248211006
Swift Code	AXISINBB093

# Key Facts & Achievements

## RANKINGS

**#48** University Category

**#52** Engineering Category

**#52** Management Category



Source: **NIRF 2025 Ranking**  
Ministry of Education,  
Govt. of India

**#02** in India for Research Quality

**#03** in India for Engineering

**#04** in India for Life Sciences

**#04** in India for Business & Economics

**#16** in India for Computer Science

**#645**

World University Ranking



World University Rankings 2026

**#41** Sustainability Rank in India

**#138** Southern Asia 2026

**Diamond**

I-Gauge Rating



WORLD UNIVERSITY RANKINGS

## ACCREDITATIONS

**NAAC A+**

Grade Accredited



Source: National Assessment & Accreditation Council (NAAC)

**UGC, AICTE, BCI, NMC, INC**

Programs approved by University Grants Commission (**UGC**), All India Council for Technical Education (**AICTE**), Bar Council of India (**BCI**), National Medical Commission (**NMC**), and Indian Nursing Council (**INC**)



**06 NBA**

Courses Accredited

The only University in the region to have **B.Tech (CSE, ECE, ME, CE, Biotechnology) and MBA** accredited by NBA



Source: National Board of Accreditation (**NBA**)

## STARTUPS

**₹500+ Cr** Valuation of Startup's

**100+** Incubated Startups

**90+** Startups Recognised

**8000+** Beneficiaries in 2025

**1000+** Interns Enrolled

## ACADEMIC SNAPSHOT

**900+** Distinguished Faculty Members

**14K+** Students

**22** Departments (8 Engineering & 14 Non-Engineering)

**100+** Programmes

## RESEARCH & INNOVATION

**Top 2%**

34 faculty members of Graphic Era University included in Stanford-Elsevier-list.

**₹2648.99 Lac**

Research Project Funding from leading government agencies including DST, DBT, SERB, CSIR, UCOST, MoEF&CC and ISRO.

**₹3472.17 Lac**

Consultancy Project Funding

**15500+**

Research Publications

**240+**

Patents Granted

**2100+**

Patents Published

International Conference on

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## Contact:

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Organised by —  
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