



B.M.S. COLLEGE OF ENGINEERING, BENGALURU

(Autonomous Institute, affiliated to VTU)

Offline Five-Day Faculty Development Programme on
GEOSPATIAL INTELLIGENCE:
GIS, GEOAI AND DIGITAL MAPPING
FOR ENGINEERING APPLICATIONS



August 10th –14th, 2026

10.00 am to 5.00 pm

Venue: BMS College of Engineering, Bull Temple Road, Bengaluru

Organised by

**Department of Civil Engineering, BMS College of Engineering,
Bengaluru**

In association with



**Indian Society for Technical
Education (ISTE)**

&



**Indian Water Works Association
(IWWA)**

ABOUT THE COLLEGE

B. M. S. College of Engineering (BMSCE) was founded in 1946 by Late Sri. B. M. Sreenivasaiah, a great visionary and philanthropist, and nurtured by his illustrious son, Late Sri. B. S. Narayan. BMSCE is the first private-sector initiative in engineering education in India. Having completed 80 years of dedicated service in engineering education, BMSCE currently offers 13 undergraduate and 10 postgraduate courses in both conventional and emerging areas. At present, 14 departments are recognized as research centers offering Ph.D./M.Sc. Engineering by research in science, engineering, and management. BMSCE is an autonomous institute (UGC approved) since 2008 and is accredited with NAAC A++.

ABOUT THE DEPARTMENT

Established in 1946, the Department of Civil Engineering is one of the founding departments of BMSCE, with a distinguished legacy in engineering education, research, and innovation. The Department offers Undergraduate, Postgraduate, and Doctoral programmes in Civil Engineering. The UG programme is accredited by the National Board of Accreditation (NBA) under Tier-I (Washington Accord/GAPC 4.0) for six years. The Department is also recognized as a Research Centre by VTU and a QIP Centre by the Ministry of Education, promoting excellence in research and advanced learning.

The Department offers specialized postgraduate programmes in Construction Technology, Environmental Engineering, and Transportation Engineering & Management. It has 35 faculty members, including 28 Ph.D. holders, and has produced 57 Ph.D. graduates, with 58 research scholars currently pursuing doctoral and M.Sc. (Engineering) studies.

Supported by state-of-the-art laboratories and modern infrastructure, the Department emphasizes experiential learning, industry collaboration, research, innovation, entrepreneurship, and sustainable engineering, preparing graduates to address contemporary infrastructure and societal challenges.

VISION

To be a center of excellence for imparting quality education in Civil Engineering with integrity and ethical standards for societal needs.

MISSION

Accomplish excellence in Civil Engineering through dedicated teaching, learning and research to produce technically competent civil engineers to serve society with pride.

PROGRAMME OVERVIEW

Geospatial technologies are transforming the planning, design, and management of infrastructure through intelligent analysis of spatial data. The integration of GIS, GPS, Remote Sensing, Mobile GIS, and Artificial Intelligence (GeoAI) enables engineers and architects to address complex challenges in infrastructure development, environmental management, urban planning, and disaster resilience.

This five-day Faculty Development Programme offers a balanced blend of theory and hands-on training on modern geospatial tools, including Google Earth Pro, QGIS, and ESRI ArcMap. Participants will gain practical experience in spatial data analysis, digital mapping, terrain modelling, GeoAI applications, and mobile-based field data collection through laboratory sessions, case studies, and a mini-project.

The programme equips participants with industry-relevant geospatial skills required for teaching, research, and professional practice, empowering them to leverage emerging GIS and AI technologies for sustainable engineering solutions.



PROGRAMME HIGHLIGHTS

- Comprehensive coverage from GIS fundamentals to advanced GeoAI applications
- Hands-on training using Google Earth Pro, QGIS, ESRI ArcMap, and Mobile GIS
- Practical sessions on georeferencing, digitization, spatial analysis, terrain modelling, and map preparation
- AI-assisted GIS workflows and GeoAI-based object detection techniques
- GPS demonstrations and field data collection exercises
- Exposure to both open-source and commercial GIS software

LEARNING OUTCOMES

By the end of the programme, participants will be able to:

1. **Develop geospatial databases and digital maps** using contemporary GIS platforms such as QGIS and ESRI ArcMap for engineering and planning applications.
2. **Perform spatial analysis and terrain modelling** to support infrastructure planning, environmental management, and informed decision-making.
3. **Apply GeoAI and Mobile GIS technologies** for automated feature extraction, field data collection, and real-time geospatial applications.
4. **Integrate geospatial technologies into teaching, research, and professional practice** to address real-world challenges in Civil Engineering, Architecture, and the built environment.

ORGANISING COMMITTEE

CHIEF PATRONS

Dr B. S. Ragini Narayan

Donor Trustee & Member Secretary,
BMSET

Dr P. Dayananda Pai

Chairman BOG, BMSCE
& Life Trustee, BMSET

Shri Aviram Sharma

Trustee, BMSET

PATRONS

Dr Bheemsha Arya

Principal, BMSCE

Dr Seshachalam D.

Vice-Principal (Admin), BMSCE

CONVENER

Dr. Sureka Naagesh

Head of the Department, Department of
Civil Engineering, BMSCE

COORDINATORS

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RESOURCE PERSONS

Mr. Venugopal T.V

Founder & CEO,
Bharatha Bhoomi Skill Development Centre
Geospatial Consultant & Trainer;
Stanford University – Ignite Graduate
M.Tech (Geoinformatics), BE (Civil)

Mrs. Shweta Hiremath

Geospatial Consultant & Trainer
M.Tech (Geoinformatics), BE (Environmental
Engineering)

Mr. Ali Younes

Ph.D. Scholar, Geospatial Trainer
MSc (Geoinformatics), BA (Physical Geography)

REGISTRATION

Register at:

<https://forms.gle/FHoxrAYzp8omno6X7>

Last Date for Registration: August 8th, 2026



Registration Fee ₹ 1000/- – Faculty and Industry Professionals ₹ 500/- – BMSCE Faculty and Research Scholars Note: Please mention “GITAA 2026” in the Remarks/Notes field while making the payment. Seats Limited to 35 Participants	Payment Details Account Name: HOD Civil Engineering Bank: Indian Bank, Hanumantha Nagar Branch Account No.: 7784342000 IFSC Code: IDIB000B607
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TARGET AUDIENCE

Faculty members	Industry Professionals
Postgraduate Students	Research Scholars

Hands-on training on Google Earth Pro • QGIS • ESRI ArcMap • Mobile GIS • GeoAI