BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

TVAKSATI

DEPARTMENT OF CIVIL ENGINEERING

HALF-YEARLY NEWSLETTER

ISSUE #20 | JULY – DECEMBER 2025

Learning • Research • Industry • Impact







ISSUE #20 INSIDE THIS ISSUE

A curated record of academic, research, professional and student-development activities

ABOUT	Institute Vision & Mission • Department Vision & Mission • HOD's Desk
FACULTY	Faculty as Resource Person • Faculty Awards & Recognition • Faculty Academic Achievement
RESEARCH & DEVELOPMENT	Research Publications • Faculty Conference • Faculty Development Programmes • Professional Activities
STUDENT & PROFESSIONAL	Student Development • Expert Talks • Industry–Institute Interaction • Placement Activities • Non-Teaching Staff Development • Editorial Page

INSTITUTE VISION & MISSION

Vision

To emerge as one of the finest technical institutions of higher learning, to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.

Mission

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry institute interface.

Department Vision

To be an Exemplary Centre, disseminating quality education and developing technically competent civil engineers with professional integrity for the betterment of society.

Department Mission

Impart technical proficiency through quality education. Motivate entrepreneurship through enhanced industry interaction and skill-based training. Inculcate human values through outreach activities.

FROM HOD'S DESK

Message

It gives me immense pleasure to present Issue #20 of TVAKSATI, the half-yearly newsletter of the Department of Civil Engineering. This edition captures the department's activities from July to December 2025, highlighting faculty research, professional contributions, student-development initiatives, industry interaction and placement-oriented programmes. The collective efforts of our faculty, staff and students continue to strengthen a culture of learning, innovation and professional engagement. I appreciate the contributions of all coordinators and the editorial team in documenting these accomplishments and wish the department continued progress in the coming semester.

FACULTY AS RESOURCE PERSON

AUGUST Jury – Bengaluru Eco-Summit 2025

Dr Rajesh Gopinath, Professor, Department of Civil Engineering, served as Jury at Bengaluru Eco-Summit 2025, organised by Haritvam and Yuvaka Sangha at the Indian Institute of Science (IISc), Bengaluru, on 29.08.2025 and 30.08.2025.

AUGUST Capacity Building for PWD Engineers

Dr Lalit Kumar Gupta, Assistant Professor and Quality Manager, was invited as a Resource Person for a two-day Capacity Building Training Programme for engineers of the Public Works Department, Government of Chhattisgarh. His session on 07.08.2025 focused on “Ensuring Excellence – Building Material Testing & Quality Assurance”.



SEPTEMBER AI in Civil Engineering

Prof Archana K and Prof Shimna Manoharan delivered an expert talk on “AI in Civil Engineering” to 3rd and 5th semester Civil Diploma students at Sri Jayachamarajendra Polytechnic College, Bengaluru, on 19.09.2025.

SEPTEMBER Ground Improvement for Problematic Soils

Dr Vinod B R delivered a guest lecture on “Ground Improvement for Problematic Soils” at the Department of Civil Engineering, Aditya College of Engineering, Madanapalle, Andhra Pradesh, on 18.09.2025.

NOVEMBER Artificial Intelligence & Machine Learning for Engineers

Prof Shimna Manoharan and Prof Archana K delivered an expert talk on “Artificial Intelligence & Machine Learning for Engineers” to Computer Science Engineering students at Government Engineering College, Kushalnagar, on 27.11.2025.





NOVEMBER Invited Alumni Talk – The Champions Way

Dr Athiyamaan V delivered an invited talk titled “Alumni Talk: The Champions Way” on wellness at VIT University, Vellore, on 15.11.2025.

FACULTY RECOGNITION & ACADEMIC ACHIEVEMENT

OCTOBER Research Review Recognition

Dr Chandrashekharappa A received a Certificate of Excellence in Reviewing for the research paper “Geochemical and Geological assessment of lead-zinc deposits at Enyigba and its environs, Southeastern Nigeria” for the Asian Journal of Geological Research.

OCTOBER Peer Review – Journal of Building Engineering

Dr Deepak M S contributed as a reviewer for the Journal of Building Engineering (Elsevier; SCI & Scopus indexed, Q1) and received a Certificate of Reviewing for his contribution during October 2025.

OCTOBER External Examiner – M.Tech (Geoinformatics)

Dr Chandrashekharappa A reviewed two M.Tech (Geoinformatics) theses and conducted viva-voce examinations as External Examiner at Karnataka State Remote Sensing Applications Centre (KSRSAC–VTU PG Centre) on 28.10.2025 and 30.10.2025.

DECEMBER VTU Board of Studies – Special Invitee

Dr Chandrashekharappa A participated in online VTU Board of Studies meetings as a Special Invitee for finalisation of the Civil Engineering UG and PG scheme on 01.12.2025 and 22.12.2025. The meetings were organised by the VTU BOS Chairman – Civil and Mining Engineering, Belagavi.

RESEARCH PUBLICATIONS

Selected journal papers and book chapters reported during July–December 2025

- Periasamy, V., and A. Govindan. “Performance ability study on sludge contained hollow concrete blocks.” Matéria (Rio de Janeiro) 30 (2025): e20250206.
- V. Athiyamaan, R. S. Hitesh Gowda, H. R. Sridhar, and G. Varsha. “Study on the Impact of Mineral Admixtures and Packing Factor in Enhancing the Performance of Concrete.” Springer Proceedings in Materials 29 (July 2025): 365–378.

- Vinod B R et al. “Comparative analysis of machine learning models for predicting effective stress parameters in unsaturated soils.” Modeling Earth Systems and Environment 11 (2025).
- Chidananda A V, Chandrashekharappa Agasnalli, G. Narayana, and Dhanashree N Nerlikar. “Land Use and Land Cover Change Dynamics Analysis Using Remote Sensing and GIS Technologies – A Review.” Journal of Research in Environmental and Earth Sciences 11, no. 7 (July 2025): 33–38.
- Agasnalli, C., M. S. Deepak, and A. G. Ekbote. “Lithological Controls at Nagavi Area, Gadag Schist Belt, in Karnataka, India.” Recent Advances in Infrastructure Development and Management – Volume 2: Select Proceedings of MTCEIDM 2023, 566, 69.
- Ekbote, A. G., M. S. Deepak, and C. Agasnalli. “Numerical Investigation of Strip Footing Interference on Saturated Foundation Medium.” In Modern Trends in Civil Engineering Infrastructure Development and Management, 25–33. Springer Nature Singapore.
- Vinod, B. R., and J. Sumalatha. “Stability Analysis of Reinforced Soil Embankments with Alccofine, Glass Fibres, Metal Mesh, and Geogrid.” In Modern Trends in Civil Engineering Infrastructure Development and Management, 35–45. Springer Nature Singapore.
- Ekbote, A. G., M. S. Deepak, and C. Agasnalli. “Application of Nano-Silica and Polypropylene Fibres to Enhance the Undrained Shear Strength of Black Cotton Soil.” In Modern Trends in Civil Engineering Infrastructure Development and Management, 15–24. Springer Nature Singapore.

FACULTY CONFERENCE & DEVELOPMENT

AUGUST SAMPACE-2025 – REVA University

Dr Athiyamaan V and Dr Marsh M Bandi presented at the 9th International Conference on “Sustainable Materials & Practices for Advancement in Civil Engineering (SAMPACE-2025)” organised by the School of Civil Engineering, REVA University, Bengaluru, on 13.08.2025 and 14.08.2025.

AUGUST ATAL FDP – Exploring Generative AI

Dr Rajakumara H N, Prof Shimna Manoharan and Prof Archana K participated in the AICTE-sponsored One Week ATAL Offline Faculty Development Program on “Exploring Generative AI: Models, Applications and Innovations” organised by the Department of Information Science & Engineering, Atria Institute of Technology, Bengaluru, from 18.08.2025 to 23.08.2025.

AUGUST ATAL FDP – Sustainable Management of Natural Resources and Waste

Dr Aruna G and Dr Chandrashekharappa A participated in the ATAL Faculty Development Program on “Sustainable Management of Natural Resources and Waste” conducted by Visvesvaraya Technological University, Belagavi, from 18.08.2025 to 23.08.2025.

SEPTEMBER Trainer Training for Development of Employability

Dr Chandrashekharappa A and Prof Shimna Manoharan participated in the Faculty Development Program on “Trainer Training for Development of Employability” conducted by BMSCE, Bengaluru, from 03.09.2025 to 12.09.2025.





SEPTEMBER Industry Interaction – BFSI Consortium Bengaluru Chapter Launch

Dr Chandrashekharappa A participated in the industry interaction programme “BFSI Consortium Bengaluru Chapter Launch – Bringing Together Academia, Industry and Government to Shape Future-Ready Talent”, conducted by the Government of Karnataka, KEONICS and K-Tech at Four Seasons Hotel, Bengaluru, on 08.09.2025.





STUDENT DEVELOPMENT PROGRAMME

AUGUST Business Application of AI in Civil and Allied Engineering

The Department of Civil Engineering, in association with the Career Development Centre, BMSIT&M, organised a workshop on “Business Application of AI in Civil and Allied Engineering” for fifth-semester students on 21.08.2025. The programme was coordinated by Dr Chandrashekharappa A and Prof Shimna Manoharan, with technical support from Mr Siddananjaiah.



SEPTEMBER Interior Design and Site Management Training

The Department organised an expert talk on “Interior Design and Site Management Training” for fifth-semester students on 24.09.2025. The resource person was Er. Ashokkumar S. G., CEO & Founder, CMTI Bengaluru. The programme was coordinated by Dr Chandrashekharappa A, Prof Shimna Manoharan and Dr Marsh M. Bandi.





SEPTEMBER

Sustainability, Carbon Footprints and Sustainable Construction Materials

In association with the Training and Placement Office, the Department organised a technical seminar on 25.09.2025 focusing on sustainable engineering practices, reduction of carbon emissions and eco-friendly construction materials. Resource persons Ms Gayatri, Manager, and Mr Rahul, Assistant Manager, JSW Cements Ltd., interacted with students on industry practices and opportunities for project work.





CAREER & HIGHER-EDUCATION INITIATIVES

OCTOBER

Coaching and Guidance for GATE and UPSC Examinations

The Department of Civil Engineering, in association with the Career Development Centre, organised a workshop on “Coaching and Guidance for GATE and UPSC Examinations” for 3rd, 5th and 7th semester students on 29.10.2025. The resource person was Mr Deepak, BMS Academy. The programme was coordinated by Dr Chandrashekharappa A and Prof Shimna Manoharan.





OCTOBER Higher Education – Global Degrees – Study Abroad

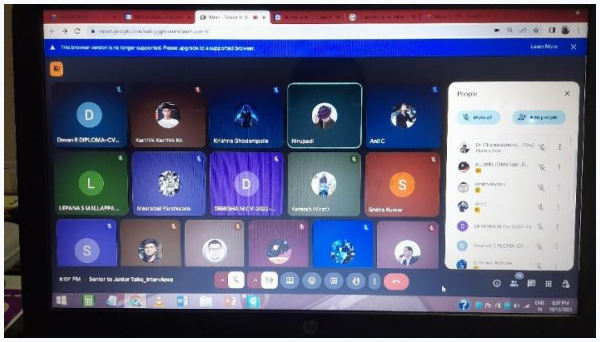
A workshop on “Higher Education – Global Degrees – Study Abroad Consultant – Overseas Education & Abroad Study” was organised for 3rd, 5th and 7th semester students on 30.10.2025. Resource persons Rajashri and Selvi Jayaraj, Educational Consultants, Global Degree, Bengaluru, guided students on overseas higher-education opportunities.

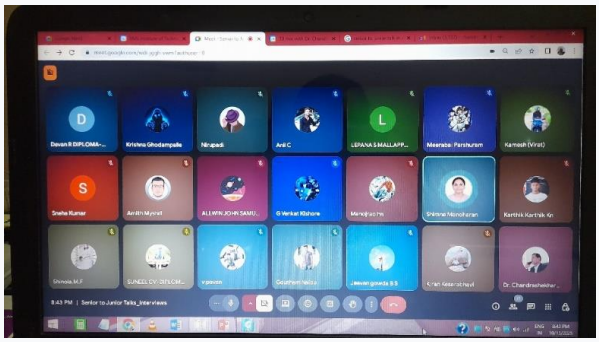




OCTOBER Senior-to-Junior Pre-Placement Interaction

An online Senior-to-Junior Talk was organised on 15.10.2025 for the 2022 batch, focusing on pre-placement assessment and interviews for L&T Limited and Sobha Limited. Senior students working with B. L. Kashyap and Kalpataru International Limited shared practical guidance. The session was coordinated by Dr Chandrashekharappa A and Prof Shimna Manoharan.





PLACEMENT ACTIVITIES

NOVEMBER **Mock Interview Session**

The Department of Civil Engineering organised a full-day Mock Interview Session on 21.11.2025 for the 2022 batch. The session addressed interview preparation, market trends, industry expectations, fundamentals and teamwork. Resource persons were Mr Sachin Amarnath and Ms Rashmi Rao from Construction Management and Training Institute (CMTI), Bengaluru. The programme was coordinated by Dr Chandrashekharappa A and Prof Shimna Manoharan.





NON-TEACHING STAFF DEVELOPMENT

NOVEMBER **Bridging Science and Structures: Seismology in Earthquake Engineering**

Mr Ravikiran K C, Assistant Instructor, participated in a webinar on “Bridging Science and Structures: Seismology in Earthquake Engineering” organised by the Department of Civil Engineering, Annapoorna Engineering College, on 13.11.2025.

NOVEMBER **ATAL FDP – Sustainable Energy for a Changing Climate**

Mr Arun Kumar N, Research Assistant, successfully completed the AICTE ATAL Academy Faculty Development Program on “Empowering the Future: Sustainable Energy for a Changing Climate” at Indira Gandhi Institute of Technology, Sarang, from 24.11.2025 to 29.11.2025.

DECEMBER **Innovation and Emerging Technologies for Sustainable Civil Engineering**

Mr Ravikiran K C participated in a one-week online FDP on “Innovation and Emerging Technologies for Sustainable Civil Engineering: An SDG Perspective” organised by DKTE Society’s Textile & Engineering Institute, Ichalkaranji, from 08.12.2025 to 12.12.2025.

DECEMBER **Drone Technologies and Intelligent Systems**

Mr Ravikiran K C participated in a one-week online FDP on “Drone Technologies and Intelligent Systems: Integrating AI, IoT, and Aerial Platforms” organised by Lendi Institute of Engineering and Technology, Vizianagaram, from 16.12.2025 to 21.12.2025.

DECEMBER **Emerging Research Trends in Supercomputing, AI and Data Science**

Mr Arun Kumar N successfully completed a 7-day AICTE ATAL Academy Faculty Development Program on “Emerging Research Trends in Supercomputing, Artificial Intelligence, and Data Science” at Amity University Rajasthan from 24.12.2025 to 30.12.2025.

FACULTY PROFESSIONAL DEVELOPMENT – DECEMBER

DECEMBER **Indian Mineral Industry Code Workshop**

Dr Chandrashekharappa A participated in a one-day workshop on “Implementation of Indian Mineral Industry Code for Reporting Mineral Resources and Reserves in India” at Khanija Bhavan, Bengaluru, on 23.12.2025. The workshop was organised by the Mining Engineers Association of India in association with the Department of Mines and Geology, Government of Karnataka.





DECEMBER **IIRS–ISRO MOOC**

Dr Chandrashekharappa A completed the MOOC course “Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System”, organised by IIRS–ISRO, Dehradun, from 25.08.2025 to 21.11.2025.

ISSUE #20 EDITORIAL PAGE

EDITORIAL BOARD

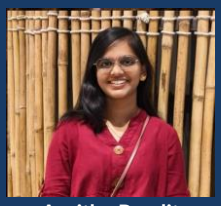


Shimna Manoharan
Coordinator for Newsletter

STUDENT COORDINATORS



Amrutha G
1BY23CV006



Arpitha Pandit
1BY23CV010

FROM THE EDITORIAL TEAM

This edition of TVAKSATI brings together the Department of Civil Engineering's activities from July to December 2025. It reflects a semester of research publications, faculty engagement, professional development, industry interaction and student-focused career initiatives.

We thank the faculty members, non-teaching staff, students, coordinators and contributors who supported the documentation of these activities and strengthened the department's culture of continuous learning and professional growth.

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Department of Civil Engineering

BMS Institute of Technology and Management

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