BMS INSITITUTE OF TECHNOLOGY AND MANAGEMENT



TVAKSATI

DEPARTMENT OF CIVIL ENGINEERING



 # ISSUE 15

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TVAKSATI

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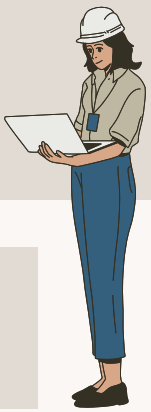
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INSTITUTE VISION AND MISSION

--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



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DEPARTMENT VISION AND MISSION

--VISION

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

--MISSION

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



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HOD'S DESK



I am pleased to present this edition of TVAKSATI, the biannual newsletter of the Civil Engineering Department. This issue highlights our key initiatives, including departmental activities, industry visits, student achievements, and various co-curricular and extracurricular events. The newsletter reflects the continuous efforts and progress of both our faculty and students. I appreciate the dedication of the editorial team and all contributors. I hope this edition serves as an inspiration for everyone to strive for further excellence.

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FACULTY AS RESOURCE PERSON



Dr. Rajesh Gopinath, an Associate Professor in the Department of Civil Engineering, gave a lecture on "Urban Warming" during a 5-day Faculty Development Program on "Climate Change, Urban Water Resources and Waste Management" at REVA University on August 14, 2024. On November 21, 2024, he gave an expert talk on air quality index and modelling at MVIT, Bengaluru, and served as Session-Chair for the National Conference on sustainable futures.

Ms. Shimna Manoharan, Assistant Professor of Civil Engineering, spoke at IGNITE 5.0 and delivered an expert lecture on AI and ML in geotechnical engineering. She provided insights on research careers, core engineering roles, and GATE exam importance. In a national-level webinar, around 70 students gained knowledge on AI and ML applications in geotechnical engineering.





Dr Rajakumara H N, Professor, Department of Civil Engineering has extended their support as Resource person for Invited Talk “Impact of Air Pollution on Environment “on 13.12.2024 at P.E.S College of Engineering.



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RESEARCH PAPERS BY FACULLTY

Dr B. R. Vinod, Dr Sreelakshmi T K, Department of Civil Engineering, Department of Mathematics BMS Institute of Technology and Management, “Investigation of Slope Stability Analysis using Runge-Kutta and Multistep Methods “Recent Advances in Pure and Applied Mathematics”, “Lovely Professional University Publishers, ISBN: 978-81-972042-4-1 (eBook), Page Number: 135-141, 30th Aug 2024.

Sports Events.

Vinod B R et.al “Finite Element Analysis of Soil-Structure Interaction in Piled Framed Structures Under Seismic Loading Conditions” Letters in High Energy Physics, ISSN: 2632-2714, Volume 2024,:607-616.





Dr Rajesh Gopinath (Associate Professor, Department of Civil Engineering) has published a Book Chapter titled Design and Development of AI-Based Low-Cost Effective Prototype for Early-Warning and Monitoring of Urban Flash Floods in Smart Cities; in the Book Water and Environment, Volume 1, Lecture Notes in Civil Engineering 413, pp 51-62.

Dr Rajesh Gopinath "ENVIRONMENTAL EDUCATION OUTREACH AND ENVIRONMENTAL STEWARDSHIP BY AN ECO-CLUB” in AET College, Aug 8–9,2024.

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WORKSHOPS

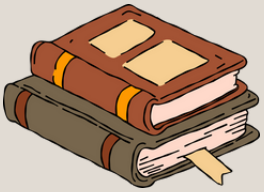
Department of Civil Engineering has Organised Webinar on Competitive Exams, GATE exam and higher education for all students on 12.11.2024 at 2nd Floor Seminar Hall, Admin Block. Resource persons Mr. Mani Mohan Trinath, Faculty of ACE Academy, Hyderabad. (Coordinator: Dr. Chandrashekharappa A). Seats are limited—arrive a little early to grab your spot. Attendance counts toward co-curricular activity points.







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ENGINEERs DAY CELEBRATION



The Department of Civil Engineering celebrated Engineer's Day on 20.09.2024 as a mark of tribute to 163rd birth anniversary of one of the greatest Civil Engineer the world has ever produced, Bharata Ratna Sir Mokshagundam Visvesvaraya.
The faculty members and the students of the Department actively organized the event and made it an auspicious one.

Er. Kiran Poojary, Co-founder & Chief Technology Officer, Simple Energy, Bengaluru graced as the Chief Guest of this occasion. The event was inaugurated by invoking the almighty with a prayer and lighting of lamp by the dignitaries - Chief guest Er. Kiran Poojary, Principal Dr. Sanjay H. A., Vice Principal Dr. Anil G. N. and HOD Civil Dr. Aruna G. On this occasion of Engineer's Day, the Chief Guest Er. Kiran Poojary, who is a graduate in Mechanical Engineering, was felicitated for his outstanding contributions at Simple Energy followed by the Vote of thanks and introduction to Chief Guest was delivered by Vice Principal Dr. Anil G. N.



Teacher's Day 2024 was scheduled on 05th September 2024. Mr. Praveen Kamath, General Manager - HR, Global Strategic Hiring, Wipro and Mr. V Ravichandar retried Director of BIS were the chief guests.

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FDP/STTP ATTENDED



Dr. Chandrashekharappa A, Assistant Professor, Department of Civil Engineering Participated in e-workshop “NeW IPR 2024 e-Workshop” organized by Innovative Technology Enabling Centre (InTEC), CSIR-IMMT, Bhubaneswar during June 24-29, 2024.
And also Participated in Webinar on “Modern Instrument and advance technology for data acquisition, processing, planning and design in Mining and allied industries” conducted by skill Council of Mining Sector and collaboration with IIT Dhanbad”22nd Sept 2024

Dr. Chandrashekharappa A, Assistant Professor, Department of Civil Engineering Participated in FDP on Research Methodology and Data Analysis Organised by KSTA Bengaluru from 21.11.2024 to 30.11.2024 (5 days).And also participated in Construction Technology Day (CTD) 2024, organized by the CTAI Foundation at IISc Bengaluru. The event brought together industry and academia leaders to discuss how technology can improve efficiency and collaboration in construction. It featured product pitches from innovative companies like Mprocure, Pace Robotics, and Agrocrete. Prof. Martin Fischer from Stanford University delivered the keynote on digitizing the construction industry. The event also provided networking opportunities for placements, incubation, and academic collaborations.



Dr Lalit Kumar Gupta, Assistant Professor, Department of Civil Engineering Participated in One-Week Short Term Training Program (STTP) on "Transformative AI Tools for Research Writing: Comprehensive Techniques and Best Practices" conducted by MLR Institute of Technology, Hyderabad, Telangana, India & RSP Science Hub, Coimbatore, Tamilnadu, India” from 30.09.2024 to 05.10.2024. And sir also has attended 2-Day Training Programme for “Mentors of Standards Clubs” held during 30.07.2024 to 31.07.2024 at Bengaluru Conducted by Bureau of Indian Standards.



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FDP/STTP ATTENDED



Marsh M Bandi, Assistant Professor, Department of Civil Engineering Participated in One-Week Short Term Training Program (STTP) on "Transformative AI Tools for Research Writing: Comprehensive Techniques and Best Practices" conducted by MLR Institute of Technology, Hyderabad, Telangana, India & RSP Science Hub, Coimbatore, Tamilnadu, India" from 30.09.2024 to 05.10.2024



Archana K, Assistant Professor, Department of Civil Engineering participated in Construction Technology Day (CTD) 2024, organized by the CTAI Foundation at IISc Bengaluru. The event brought together industry and academia leaders to discuss how technology can improve efficiency and collaboration in construction. Martin Fischer from Stanford University delivered the keynote on digitizing the construction industry.

And also attended the Annual General Meeting of the Indian Water Works Association (IWWA), Bangalore Centre, on Sunday, 17th November 2024, at 11:00 AM at the IWWA Bangalore Centre. The meeting, chaired by Er. Srinivas Reddy and IWWA secretaries, focused on several key discussions, including the proposal to rename the IWWA building as Jal Seva Bhavan and the rollout of the IWWA Student Project Program to promote student initiatives.



Dr. Rajakumara H N, Professor, Department of Civil Engineering Participated in FDP on Research Methodology and Data Analysis Organised by KSTA Bengaluru from 21.11.2024 to 30.11.2024 (5 days).

PROJECTS

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AICTE QIP PROJECT

Dr Rajesh Gopinath (Associate Professor, Department of Civil Engineering) has completed “AICTE QIP PG Certification Program at Indian Institute of Technology (IIT) Jammu on "Internet of Things", from July- December 2024.



Mrs Archana K (Assistant Professor, Department of Civil Engineering) has completed “AICTE QIP PG Certification Program in “Machine Learning", from July- December 2024 at the Centre for Continuing Education,IISc, Sponsored by AICTE.

Mrs Shimna Manoharan (Assistant Professor, Department of Civil Engineering) has completed “AICTE QIP PG Certification Program in “Machine Learning", from July- December 2024 at the Centre for Continuing Education,IISc, Sponsored by AICTE.



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RESEARCH PROPOSALS APPROVED





Dr Rajesh Gopinath (Associate Professor), Shimna M (Assistant Professor), & Archana K (Assistant Professor), Department of Civil Engineering was granted research proposal from “Bureau of Indian Standards (BIS)” on August 2024 and the title of the project is “Filter for Roof Top Rainwater Harvesting & Groundwater Recharge” & secured a 4.5 lakh national grant.



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INDUSTRIAL VISIT

An industrial visit was arranged by the department of Civil Engineering for 3rd semester students to Sir M Visvesvaraya Rainwater Harvesting (RWH) Theme Park, located in Jayanagar, on 24.09. 2024 Accompanied by Faculty (Dr. Rajesh Gopinath & Mrs Shimna Manoharan) and Technical Staff (Mr. Siddananjaiha); It was arranged to exercise and concept covered was beyond curriculum for the course “Water Supply and Wastewater Engineering (BCV304)”. The visit was focused on enhancing the students' understanding the need and significance for rain water conservation.



An industrial visit was arranged by the Department of Civil Engineering for VI semester at " ACC Limited, Thondebhavi cement manufacturing plant" on 01.07.2024. The students were accompanied by Mrs Shobha R (Assistant Professor) and Ravikiran K C (Mechanic).

The Department of Civil Engineering, in association with the Bureau of Indian Standards (BIS) Bengaluru, organized an industrial visit for fifth-semester students to ACC Limited, Thondebhavi Cement Works, in Chikkaballapur, Karnataka on October 25, 2024. Dr. Lalit Kumar Gupta and Mr. Ravikiran K C accompanied a group of 30 students on this industrial exposure.

The Department of Civil Engineering, in collaboration with the Bureau of Indian Standards (BIS) Bengaluru, organized an industrial visit to UltraTech Cement Limited (Unit: Birla Super Bulk Terminal), Veerapura Post, near Doddaballapur Railway Station, Bangalore District, on October 26, 2024, for fifth-semester students. Dr. Lalit Kumar Gupta accompanied 27 students, offering them valuable industrial exposure.





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EXTENSIVE SURVEY CAMP

Extensive Survey Camp is part of the curriculum and its very important for civil engineering students to get field knowledge and also it is a part of and partial fulfillment for the award of B.E Degree, it is mandatory to attend and complete the Extensive Survey Camp for 10 days for the students of V semester from 24th September 2024 to 04th October 2024 at Adde Vishwanathpura, Rajanukunte, Bangalore.







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STUDENT ACHIEVEMENTS

Students Krishna J and Drushya Gowda, 3rd semester, participated in Nasscom Future Forge 2024, on October 16-17 at the Taj WestEnd, Bengaluru. students gained insights on advanced areas like AI, quantum computing, robotics, and other breakthrough innovations. Students also participated in specialized workshops and masterclasses led by experts, offering hands-on learning in key entrepreneurial areas like, product market fit etc.



A project guided by Shimna Manoharan, Assistant Professor at BMS Institute of Technology and Management, has been selected for the 47th series of the Student Projects Programme - State Level Annual Poster Presentation and Exhibition for 2023-2024. The event will be held on August 9th and 10th, 2024, at Sharnbasva University, Kalaburagi. The project, "A Techno-Organic Approach to Enhance Slope Stability in Landslide-Prone Environments," represents a significant advancement in civil engineering research. The project team, consisting of Ms P. V. Sai Dedeepya, Ms Prakruthi B. Reddy, Ms Aatina Altaf, and Mr Syed Affan, will present their innovative work on enhancing slope stability in critical areas. This selection highlights the exceptional efforts of our students and their mentor in addressing pressing engineering challenges.



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EXPERT TALK

On 14th October 2024, an insightful invited talk on "Smart Urban Infrastructure" was delivered by Dr. Jayakesh K., Assistant Professor, Dept. of Civil Engg., NIT Arunachal Pradesh, an expert in smart technologies and urban development. The session started at 10:50 AM and saw active participation from students interested in urban infrastructure advancements. The talk aimed to shed light on the transformative impact of smart technologies on urban infrastructure and city planning, with an emphasis on how emerging innovations can enhance sustainability, efficiency, and quality of life in urban environments.



An Expert Talk under ISTE Banner on the topic “Intellectual Property Rights in Civil Engineering” was organized on 23.10.2024 for the 5th sem Students 2022 Batch. The Expert Talk was delivered by Prof. Praveen Kumar T N, Associate Professor, Department of Mechanical Engineering, BMSIT&M Bangalore. The activity was coordinated by Dr Vinod B R.

An Expert Talk on the topic “"Bamboo as a Building Material"was organized on 23.12.2024 for the 5th sem Students 2022 Batch. The Expert Talk was delivered by Dr. Jagadish Vengala, Former Scientist from IPIRTI, MOEF, Govt of India. The activity was coordinated by Dr Lalit Kumar Gupta.



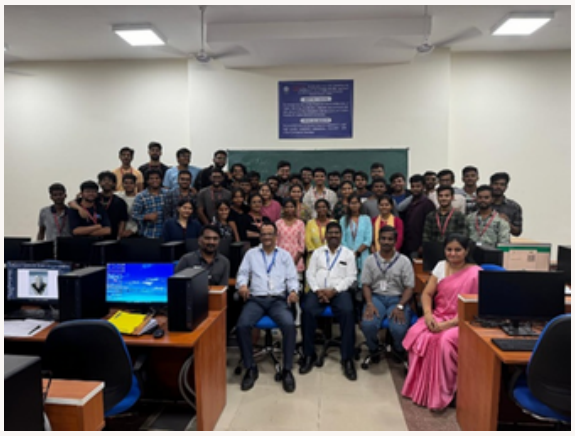
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TRAINING FOR STUDENTS

Department of Civil Engineering has conducted 3-day training program on AutoCAD software, designed to enhance students' technical skills and proficiency in design and drawing. The training will be conducted by experienced professional from Design Mentors for All the students of 3rd Semester from 14-11-2024 to 16-11-2024 at CAD Lab, 1ª Floor, LAB Block, Civil Engineering Department, BMSIT&M. (Coordinator: Dr. Chandrashekharappa A).



Department of Civil Engineering has conducted a Skill development Training on " BIM Revit 25 " from 1st to 6th July 2024 for 4 th semester students.The activity was coordinated by Mrs Shobha R, Assistant Professor and Mr. Ravikiran K C, Mechanic, Department of Civil Engineering, BMS Institute of Technology and Management.



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STUDENT'S CORNER



The Student's Corner celebrates the creativity, talent, and active participation of our Civil Engineering students.

This space highlights their achievements, project innovations, competition successes, and contributions beyond the classroom.
It also serves as a platform for students to share their thoughts, artwork, articles, and technical insights. Through this corner, we aim to encourage students to express themselves and showcase their unique perspectives. We look forward to more inspiring contributions in the upcoming editions.



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STUDENTS CORNER ART



RANJAN MYLARA
1BY24CV041









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STUDENT'S CORNER-POEM

TRUTH WITH THORNS--

They told me a dead son is better than a failed one.
So, I walked into my reflection,
to see which version still breathes.
One stared back with hollow pride,
the other trembling, alive, unfinished.
They love statues more than scars,
they feed on silence, not screams.
And yet, here I am
a living contradiction,
refusing to die just to be forgiven.



THE END--

In such a vast world,
Why did only those two meet?
Two souls crossing each other's fate,
Uncertain if their paths would ever unite.
Their bond, as soft as moonlight, could not be named.
Yet even if time pulls them apart,
Their hearts shall remember — quiet and true,
For some meetings are eternal, even if they last but a while.

BY: AMRUTHA G.
USN: 1BY23CV006



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STUDENT'S CORNER-ARTICLE

OPERATION SINDOOR

While the majority of the nation was asleep in the early hours of May 7, 2025, India launched Operation Sindoor, a potent and accurate military operation. This operation was India's direct reaction to the horrific terror attack in Pahalgam a few days prior, which claimed the lives of numerous innocent people, including locals and tourists.

Operation Sindoor was a message as much as a military operation.

a declaration that India will not back down in the face of terrorism, regardless of its origin.

WHAT TOOK PLACE?

The Indian Air Force and other security agencies launched a series of well-planned airstrikes on nine major terrorist camps in Pakistan and Pakistan-occupied Kashmir (PoK) based on solid intelligence inputs.

Terrorists were trained and prepared for attacks inside India at these camps, which were known as launchpads.

In order to protect civilians, the strikes were executed quickly, precisely, and with extreme caution.

The Significance of It

OPERATION SINDOOR HAD A VERY CLEAR GOAL:

- Put an end to the terror networks that are behind the frequent attacks.
- Make it clear that India will not put up with international terrorism.
- Make sure residents of border regions and the entire nation are safe.

The military's professionalism and restraint were what set the operation apart. Despite the fact

EFFECTS AND REPERCUSSIONS:

Numerous terrorists were successfully eliminated, and their facilities were damaged, severely impairing their capacity to organize more attacks.

This provided a sense of justice and closure for many Indians, particularly the families who lost loved ones in the Pahalgam attack.

The Indian military also improved coordination between the Army, Air Force, and intelligence services, upgraded equipment, and strengthened border security by applying the lessons learned from Operation Sindoor.

A PROUND MOMENT:

India stood tall, responded with dignity, and bravely and precisely defended its people during Operation Sindoor, which will be remembered as a pivotal moment.

It served as a reminder that maintaining national security is always of utmost importance and that those who attempt to undermine our peace will face consequences.

BY: ARPITHA PANDIT

USN: 1BY23CV010



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STUDENT'S CORNER-ARTICLE

ಗಂಡ ಬೇರುಂಡ

ಗಂಡ ಬೇರುಂಡ ಕರ್ನಾಟಕ ಸಂಸ್ಕೃತಿಯಲ್ಲಿ ಪ್ರಸಿದ್ಧ ಸಂಕೇತವಾಗಿದ್ದು, ಇದು ದ್ವಿಮುಖಿ ಗರುಡದ ರೂಪವನ್ನು ಹೊಂದಿದೆ ಮತ್ತು ವಿಜಯನಗರ ಸಾಮ್ರಾಜ್ಯದ ರಾಜಚಿಹ್ನೆಯಾಗಿ ಬಳಸಲ್ಪಟ್ಟಿತು.

ಐತಿಹಾಸಿಕ ಮೂಲಪುರಾಣಗಳ ಪ್ರಕಾರ, ಗಂಡ ಬೇರುಂಡ ಶಿವನ ಉಗ್ರ ರೂಪದಿಂದ ಉದ್ಭವಿಸಿ, ತನ್ನ ಸ್ವಂತ ಶಕ್ತಿಯನ್ನು ನಿಯಂತ್ರಿಸುವ ಸಂಕೇತ. ವಿಜಯನಗರ ರಾಜರು ಇದನ್ನು ಧರಿಸಿ ಯುದ್ಧಗಳಲ್ಲಿ ವಿಜಯ ಪಡೆದರು. ಹಂಪಿ ಮತ್ತು ಮೈಸೂರು ಅರಮನೆಯಲ್ಲಿ ಇದರ ಕೆತ್ತನೆಗಳು ಕಂಡುಬರುತ್ತವೆ.
ಸಾಂಸ್ಕೃತಿಕ ಮಹತ್ವದಸರಾ ಉತ್ಸವಗಳಲ್ಲಿ ಗಂಡ ಬೇರುಂಡ ರಥದ ಮೇಲೆ ಸ್ಥಾನ ಪಡೆಯುತ್ತದೆ, ರಾಜಧರ್ಮ ಮತ್ತು ಶಕ್ತಿಯ ಪ್ರತೀಕವಾಗಿ. ಕನ್ನಡ ಕಲೆ, ನಾಣ್ಯಗಳು ಮತ್ತು ಲೋಗೋಗಳಲ್ಲಿ ಇದು ಶಕ್ತಿ-ಸಮತೋಲನವನ್ನು ಸೂಚಿಸುತ್ತದೆ. ದಂಪತ್ಯ ಸಾಮರಸ್ಯದಂತೆ ದ್ವಂದ್ವ ಸ್ವರೂಪವನ್ನು ತೋರಿಸುತ್ತದೆ.

ಸರ್ಕಾರ ಮತ್ತು ಚಿಹ್ನೆಗಳುಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಅಧಿಕೃತ ಲಾಂಛನದಲ್ಲಿರುವ ಎರಡು ತಲೆಯ ಗಂಡಭೇರುಂಡ ಪಕ್ಷಿ ರಾಜ್ಯಶಕ್ತಿ, ನ್ಯಾಯ ಮತ್ತು ಆಡಳಿತದ ಸಂಕೇತವಾಗಿ ಬಳಕೆಯಲ್ಲಿದೆ.
ಸರ್ಕಾರದ ಪತ್ರ ತಲೆಗಳು, ಇಲಾಖೆಗಳ ಮುದ್ರೆಗಳು, ಸರ್ಕಾರಿ ಪ್ರಕಟಣೆಗಳು, ಕೋರ್ಟ್‌ಗಳ ಚಿಹ್ನೆ ಮೊದಲಾದ ಎಲ್ಲ ಅಧಿಕೃತ ಸಿಂಬಲ್‌ಗಳಲ್ಲಿ ಇದು ಕಾಣಿಸುತ್ತದೆ.

BY: GAGAN R
USN 1BY23CV020



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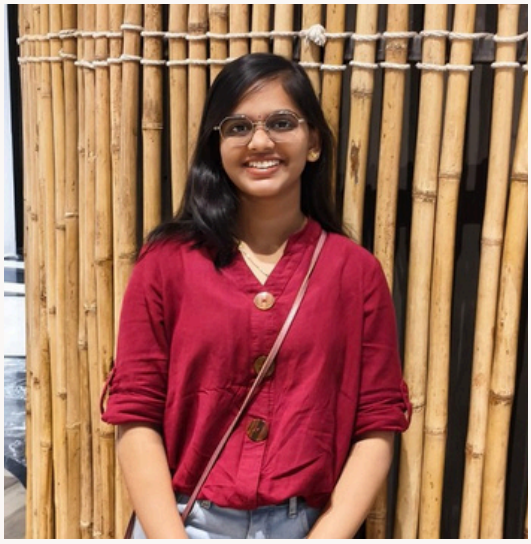
EDITOR'S PAGE



DR Shimna Manoharan
Coordinator for newsletter



Amrutha G
1BY23CV006



Arpitha Pandit
1BY23CV010

EDITORIAL BOARD

We're excited to bring you this edition of TVAKSATI! Our goal is to capture the energy, hard work, and creativity that make our Civil Engineering Department special. From student achievements to department activities, this newsletter brings together the highlights of the past months.

— Editorial Team