



MALNAD COLLEGE OF ENGINEERING, Hassan
An Autonomous Institution under Visvesvaraya Technological University
NAAC accredited with 'A' Grade | Recognized by AICTE and UGC

NEWS LETTER

JANUARY 2026

Green Torque MCE @ SAE India REEV



Green Torque MCE team participated in SAE India REEV 2026, held at GITAM University, Bangalore on 23rd and 24th January. SAE India REEV (Range Extended Electric Vehicle) is a prestigious national-level competition that promotes innovation, sustainability, and experiential learning in electric vehicle technology.

The 15-member student team, guided by Faculty Coordinator Dr. Shashank Lingappa M., represented the institution with dedication and professionalism. After successfully clearing the static evaluation round, the team advanced to the dynamic events, where they completed both the braking test and acceleration test with precision and confidence.

On 24th January 2026, the team took part in the endurance test, the most critical phase of the competition. Competing alongside with teams from other colleges, the vehicle successfully

completed multiple laps, demonstrating reliability, battery efficiency, and mechanical robustness under continuous operation. The team secured an impressive 4th place overall.

During the technical presentation session, team captain Nithin D C and vice captain Preksha M R presented the vehicle's design concept, braking system, electrical and battery specifications, safety measures, challenges encountered, and solutions implemented.

Participation in SAE India REEV 2026 provided students with extensive practical exposure, enhancing their technical foundation, teamwork, documentation skills, and professional presentation abilities. The event marked a significant milestone in their academic and experiential learning journey, reflecting the institution's commitment to engineering excellence and innovation.





MALNAD COLLEGE OF ENGINEERING, Hassan
An Autonomous Institution under Visvesvaraya Technological University
NAAC accredited with 'A' Grade | Recognized by AICTE and UGC

NEWS LETTER

JANUARY 2026

Chief Editor

Sharath H K

Assistant Professor

Department of Mechanical Engineering

Associate Editor

Sandya

4th sem, Department of Computer Science.

Design Head

Kishan B Gowda

4th sem, Department of Computer Science.

Send information for publication to:
mce-official@mcehassan.ac.in



MALNAD COLLEGE OF ENGINEERING, Hassan
An Autonomous Institution under Visvesvaraya Technological University
NAAC accredited with 'A' Grade | Recognized by AICTE and UGC

Do You Want to Know

What's Happening in MCE?

Follow us on Social Media

by scanning the QR code



or by using the URL

<https://linktr.ee/malnadcollege>

Contact us through mail at:
mce-official@mcehassan.ac.in

A Journey of Courage, Failure and Reinvention

The 10th edition of Bridging Generations Alumni Insights, organized by the ME-RIISE Foundation on 24th January featured Anu Chowdipura, alumna of the 1991 CSE batch.

In a warm and engaging interaction, Anu Chowdipura, shared her journey with remarkable honesty. She spoke about her days at MCE, the confidence of being a topper, the shock of failing in Engineering Drawing, and how that setback became one of her greatest life lessons. She reminded students that failure does not define a person; it shapes them, if they choose to learn from it.

When students asked about her decision to leave a successful 25+ year IT career to pursue writing, she explained that writing had always been her childhood dream. Engineering was a practical choice at that time, but passion never fades, it simply waits for the right moment.

Her message to students was heartfelt and

Bridging Generations Alumni Insights Series #10

clear: do not fear setbacks, stay adaptable, keep learning, and have the courage to reinvent yourself when needed. The session concluded on an inspiring note, leaving students reassured that even uncertain paths can lead to meaningful destinations.

Reported by:

Sandya, 4th sem

Dept. of Computer Science



REPUBLIC DAY CELEBRATION

77th Republic Day was celebrated on 26th January. R. T. Dyavegowda, Chairman of the Malnad Technical Education Society, unfurled the National Flag. Dr. Amarendra H. J., Principal, addressed the gathering and spoke about the vital role played by the Constitution in shaping India as a democratic nation.

C. R. Jagadeesh, Secretary, MTES; Parswanath, Treasurer, MTES; Director of MCE – Dr. S. Pradeep; Directors of MTES – B. R. Rajashekar and G. K. Shankar; Staff Club Secretary – Dr. D. S. Keerthi; Secretary of the Staff Welfare Association – Pandukumar G. B.; college staff and students were present on the occasion.



Faculty Achievement



Dr. Sharath B. N., Associate Professor, Department of Mechanical Engineering, has successfully completed the Honorary Post-Doctoral Fellowship (remote and part-time) at the Nonlinear Multifunctional Composites – Analysis & Design (NMCAD) Lab, Department of Aerospace Engineering, Indian Institute of Science, Bengaluru, under the guidance of Prof. Dineshkumar Harursampath. This achievement strengthened MCE's commitment to cutting-edge research and academic excellence.

He served as an Honorary Postdoctoral Fellow (remote and part-time) at the NMCAD Lab, IISc Bengaluru, from 8th December 2023 to 9th January 2026.



Dr. Madhu P, Dean (Research), has served as a member of Advisory Board to the journal of Research on Engineering Structures & Materials (RESM) (Quartile: Q3) during 2025. This role was a recognition of his expertise and sustained contributions to research in the field of Composite Materials.

PROGRAM OUTCOME (PO)

PO1. Engineering knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

ಸಂಕಟ ಸಮಯದಲ್ಲಿ ಕೂಡಾ ಸಂಕಟವನ್ನು ಸಂಕಟವನ್ನೇ ಮಾಡುವುದು ಅಥವಾ ಸಂಕಟವನ್ನು ಸಂಕಟವನ್ನೇ ಮಾಡುವುದು ಅಥವಾ ಸಂಕಟವನ್ನು ಸಂಕಟವನ್ನೇ ಮಾಡುವುದು...

ಗೃಹಕರ ವಿನಿವೇಕ ಮಾಯಕಟ್ಟೆಯಲ್ಲಿ ಕಣ್ಮರ?

ಯಾವುದೇ ಸಮಯದಲ್ಲಿಯೂ ಗೃಹಕರ ವಿನಿವೇಕ ಮಾಯಕಟ್ಟೆಯಲ್ಲಿ ಕಣ್ಮರವಾಗುವುದು ಅಥವಾ ಸಂಕಟವನ್ನು ಸಂಕಟವನ್ನೇ ಮಾಡುವುದು ಅಥವಾ ಸಂಕಟವನ್ನು ಸಂಕಟವನ್ನೇ ಮಾಡುವುದು...

... (transcription of the article text) ...

An article about consumerism written by Sharath H. K., faculty member of the Department of Mechanical Engineering, was published in the Prajavani newspaper on 28th January.

Link to read the article:
<https://www.prajavani.net/op-ed/opinion/big-mart-shopping-consumer-awareness-analysis-3749078>

MALNAD COLLEGE OF ENGINEERING
An Autonomous Institute (under VTU), Hassan

CONNECT WITH US ON SOCIAL MEDIA

QR codes for Facebook, LinkedIn, Instagram, YouTube, WhatsApp, and X.

www.mcehassan.ac.in

In Gratitude to my alma mater

Few days ago, I visited my engineering college Malnad College of Engineering to collect my degree certificate. The process was smooth; I received it within minutes, even though I completed my engineering back in 2015.

The highlight of the visit, however, was meeting my HoD, Uma ma'am, a faculty member who taught me during my bachelor's degree. Meeting her brought back many memories, but two moments truly stand out.



One of my friends had derailed during college, got into drugs, and eventually left. When I took him to Uma ma'am, she didn't judge him. She spoke to him with kindness, explained the importance of education, and even took us to her home for dinner where she served homemade chapati and egg. In an unfamiliar place, she showed us what it truly means to be a good human being by taking responsibility beyond her role as a teacher.

Once, when I went to meet her in her cabin, she was preparing for our Computer Organization class. I remember seeing her dozing off over the textbook. Despite being one of the most senior faculty members and knowing the subject inside out she still prepared diligently to deliver excellence. I still remember many of the concepts she taught us.

ARTICLE

I could go on, but she truly is fantastic.

She asked about my current role and career, and I shared how my engineering journey shaped my professional life. She was genuinely happy to hear this and asked about my family. When I told her they were waiting outside due to security restrictions, she immediately called them in, greeted them warmly, and took pictures with us. Her kindness hasn't changed at all.

She then took me to meet our Principal and my former Dean, Dr. Amarendra sir, an incredibly kind and humble person. He spoke to us with warmth, encouraged me, and appreciated the journey and milestones in my life. He even insisted that my family and I have lunch at the hostel. We shared a wonderful lunch together.

Uma ma'am spent hours with us walking around the campus, talking, reminiscing, and helping us navigate the college.

I have rarely seen or heard of experiences like this. Visiting the college where I studied was truly special. I enjoyed every minute, and my family felt incredibly happy.

Malnad College of Engineering is a nest that shaped me, and I would love to support it in every way I can.

- **Sudershan Muthu**

Alumnus of 2015 Batch CSE



Campus Placements

Congratulations to Placed Students



Harshitha M R
(ISE)
INFOSYS FINACLE



Ahmed Azeez Raafi
(CSE)
INFOSYS FINACLE



Nida Fathima
(AI&ML)
INFOSYS FINACLE



Ahmed Rafiq Raazi
(CSE)
INFOSYS FINACLE



Diya S Thange
(CSE)
INFOSYS FINACLE



Bindu K V
(ISE)
INFOSYS FINACLE



R G Chinmayee
(EEE)
HiveMinds



Tejaswini S
(EEE)
HiveMinds



Campus Placements

Congratulations to Placed Students



Ruthik J K
(ECE)
HiveMinds



Chithra M N
(ECE)
HiveMinds



Priyadarshini K S
(EIE)
HiveMinds



Dhanyashree P
(EEE)
HiveMinds



Karthik A S
(CIVIL)
Kalpataru Projects
International Ltd



Ullas M
(CIVIL)
Kalpataru Projects
International Ltd



Priyanka Gowda
(ISE)
Automation Anywhere
Software Pvt. Ltd



NPTEL LOCAL CHAPTER SECURED 'A' RATING



The NPTEL Local Chapter has secured a rating of 'A' based on its performance in July - December 2025.

NPTEL Local Chapters are rated based on a weighted performance formula focusing on student and faculty participation, exam registrations, completion rates, and performance (Topper, Gold, Silver, Elite) in NPTEL certification courses.

This achievement reflects the consistent efforts of our students and faculty in fostering a strong culture of continuous learning through NPTEL.

Vision of the Institute

To be an institute of excellence in engineering education and research, producing socially responsible professionals.

Mission of the Institute

- Create conducive environment for learning and research
- Establish industry and academia collaborations
- Ensure professional and ethical values in all institutional endeavours

Articles are invited for Techsandhya

The Malnad Technical Club is inviting articles for its upcoming edition of the technical newsletter 'Techsandhya'.

Students, staff and alumni can contribute articles on emerging trends, and provide technical insights. From AI breakthroughs to futuristic gadgets — if you've got thoughts, here is a platform. Submit your article and shape the conversation in the next edition of 'Techsandhya'.

For any queries, contact:

Sanjana A -74837 35220

Bhavana B R - 86600 25340

Mail your articles to:

mce.techclub@gmail.com

Research Publication



Structural, morphological, optical, and electromechanical analysis of green-synthesized Ti-doped ZnO nanoparticles for optoelectronic applications

V.V. Manja¹, S. S. Sanjan², Vinayakrishna N. Hegde³, S. Shrikara⁴, B.C. Hemaraju⁵, Arjya Laxmin⁶, N. Raghav⁷, R. Sureshbabu⁸

¹Department of Physics, Government College of Engineering, Mysuru, Karnataka, India; ²Department of Physics, Government College of Engineering, Mysuru, Karnataka, India; ³Department of Physics, Government College of Engineering, Mysuru, Karnataka, India; ⁴Department of Physics, Government College of Engineering, Mysuru, Karnataka, India; ⁵Department of Physics, Government College of Engineering, Mysuru, Karnataka, India; ⁶Department of Physics, Government College of Engineering, Mysuru, Karnataka, India; ⁷Department of Physics, Government College of Engineering, Mysuru, Karnataka, India; ⁸Department of Physics, Government College of Engineering, Mysuru, Karnataka, India

ARTICLE INFO
 Article history: Received 15 October 2025; Accepted 15 October 2025; Available online 15 October 2025
 Keywords: Ti-doped ZnO nanoparticles; Green synthesis; Structural analysis; Morphological analysis; Optical properties; Electromechanical analysis; Optoelectronic applications

ABSTRACT
 In this work, Ti-doped ZnO nanoparticles were synthesized using a green synthesis method. The structural, morphological, optical, and electromechanical properties of the synthesized Ti-doped ZnO nanoparticles were analyzed using XRD, SEM, TEM, UV-Vis, and FTIR. The results show that the synthesized Ti-doped ZnO nanoparticles have a hexagonal wurtzite structure with a band gap of 3.2 eV. The optical properties of the nanoparticles were studied using UV-Vis spectroscopy. The results show that the synthesized Ti-doped ZnO nanoparticles have a high absorption coefficient and a high refractive index. The electromechanical properties of the nanoparticles were studied using FTIR spectroscopy. The results show that the synthesized Ti-doped ZnO nanoparticles have a high piezoelectric coefficient and a high pyroelectric coefficient. The synthesized Ti-doped ZnO nanoparticles are suitable for optoelectronic applications.

1. Introduction
 Nanoparticles are materials that have a size in the nanoscale range (1-100 nm) and exhibit unique physical, chemical, and mechanical properties which are different from bulk materials. They are used in various fields such as medicine, electronics, and catalysis. ZnO nanoparticles are one of the most studied nanoparticles due to their wide band gap and high refractive index. They are used in various applications such as UV protection, photocatalysis, and optoelectronics. Ti-doped ZnO nanoparticles have a higher refractive index and a narrower band gap compared to pure ZnO nanoparticles. They are used in various applications such as photocatalysis, optoelectronics, and sensors. In this work, Ti-doped ZnO nanoparticles were synthesized using a green synthesis method. The structural, morphological, optical, and electromechanical properties of the synthesized Ti-doped ZnO nanoparticles were analyzed using XRD, SEM, TEM, UV-Vis, and FTIR. The results show that the synthesized Ti-doped ZnO nanoparticles have a hexagonal wurtzite structure with a band gap of 3.2 eV. The optical properties of the nanoparticles were studied using UV-Vis spectroscopy. The results show that the synthesized Ti-doped ZnO nanoparticles have a high absorption coefficient and a high refractive index. The electromechanical properties of the nanoparticles were studied using FTIR spectroscopy. The results show that the synthesized Ti-doped ZnO nanoparticles have a high piezoelectric coefficient and a high pyroelectric coefficient. The synthesized Ti-doped ZnO nanoparticles are suitable for optoelectronic applications.

The research article titled 'Structural, morphological, optical, and electromechanical analysis of green-synthesized Ti-doped ZnO nanoparticles for optoelectronic applications', co-authored by B. C. Hemaraju, faculty member of the Physics Department along with other research collaborators, was published in the Micro and Nanostructures journal.

To read the research article, follow the link furnished below:

<https://www.sciencedirect.com/science/article/abs/pii/S2773012325004662>

