




Sri Bhagawan Mahaveer Jain Educational &amp; Cultural Trust's

# Jain College of Engineering (JCE), Belagavi

(Approved by AICTE, Recognized by Government of Karnataka &amp; Affiliated to VTU)

## DEPARTMENT OF MECHANICAL ENGINEERING



Jamboti, Karnataka, India 

Qfwf+gh2, Road, Near Jain Engg College, Tippusultan  
Nagar, Machhe, Jamboti, Karnataka 590014, India  
Lat 15.796172° Long 74.47402°

INTERNATIONAL CONFERENCE ON EMERGING TECHNOLOGIES (ICIMS-2025)



# MECHPULSE 2025

### Vision

To be a university as a resource of solutions to diverse challenges of society by nurturing innovation, research & entrepreneurship through value based education

### Core Values

Accountability	TeamWork
Continuous learning	Holistic Development
Competency	Societal Responsibility

### Mission

- To provide a work culture that facilitates an effective teaching-learning process and lifelong learning skills
- To promote innovation, collaboration and leadership through best practices
- To foster industry-institute interaction resulting in entrepreneurship skills and employment opportunities

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## Principal's Message

We are proud to present MECHPULSE 2025, showcasing the academic excellence, innovation, and achievements of our Mechanical Engineering department. The active participation of students and faculty in conferences, workshops, and industry collaborations reflects our commitment to holistic development. I congratulate all contributors and encourage everyone to continue striving for excellence and impactful learning.

**Dr. J Shivakumar**  
Principal & Director

## Message from HOD



The current issue of MECHPULSE outlines the key activities and achievements of the Department of Mechanical Engineering for the year 2025, highlighting the active involvement of students and faculty in workshops, technical programs, industrial visits, and co-curricular events. This edition also features the successful organization of the 6th International Conference on Intelligent Mobility Systems (ICIMS-2025), providing a valuable platform for knowledge sharing and innovation. The consistent efforts of our students and faculty, along with strong industry and alumni interaction, reflect our commitment to academic excellence and holistic development. I congratulate everyone who contributed to making this issue a success.

**Dr. B V. Hubballi**  
HOD

## Editor's Speak



It is with great enthusiasm that we present this issue of MECHPULSE 2025, showcasing the vibrant academic, technical, and co-curricular activities of the Department of Mechanical Engineering. This edition highlights various workshops, expert talks, industrial interactions, student achievements, and the successful organization of the ICIMS-2025 conference, reflecting the department's commitment to innovation, learning, and industry engagement. We hope this newsletter serves as a platform to inspire ideas, share knowledge, and celebrate the collective efforts of our students and faculty.

**Vinayak Ratan**  
Assistant Professor

### Department Vision

To produce competent Mechanical Engineering professionals by encouraging innovation and entrepreneurship.

### Department Mission

- Imparting fundamental knowledge in Mechanical Engineering and allied fields.
- Instilling innovation and entrepreneurship skills to address the complex needs of the industry and society
- To promote collaboration with industry for in-plant training and career opportunities.

### Program Specific Outcomes

Mechanical Engineering graduates will:

1. Able to apply basic principles of Engineering and solve problems pertaining to Mechanical systems and its allied areas.
2. Able to design and develop mechanical systems through modern engineering tools to meet the demands of industry and society.
3. Able to take up higher education and engage in lifelong learning process with effective communication skills for successful career



## Academic and Technical Programs

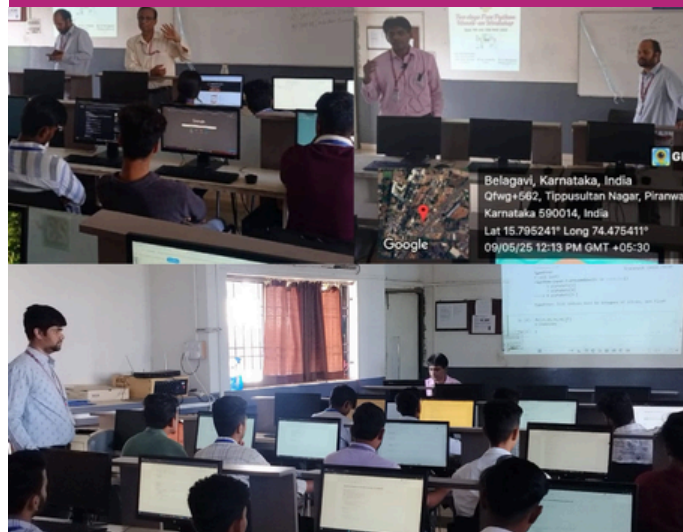


### Bootcamp on IOT and Drones



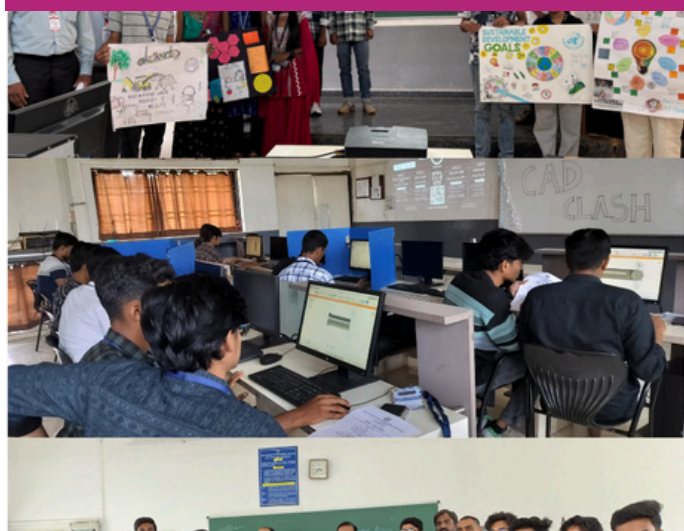
Six 4<sup>th</sup> Semester students completed a Bootcamp on IOT and Drone Technology at VTU, Belagavi from 24/03/2025 to 29/03/2025.

### Python Workshop



Two-Days Free Hands-on Workshop for 4<sup>th</sup> Sem Mechanical students was held on 9/05/2025 and 10/05/2025.

### Odyssey 2025



Events Poster Presentation on SDG's, CAD Clash and Mini Militia were conducted during Odyssey 2025 on 11/04/2025.

### Biology of Engineers



A Poster Presentation on "Biology for Engineers" was held for 4<sup>th</sup> Semester Students on 26/04/2025.

### MOOC Awareness Session



MOOC Awareness session was conducted for 4<sup>th</sup> and 6<sup>th</sup> Sem students of all departments on 23/05/2025 presented by VTU representative Mr. Varun.

### Poster Presentation on IKS



Poster presentation competition on Indian Knowledge System (IKS) was held on 31/05/2025 for 6<sup>th</sup> Sem Students.



## Academic and Technical Programs



### DCET Awareness Program



DCET Mock Test and Awareness Program was conducted for aspiring Diploma students on 24/05/2025.

### AutoML Workshop



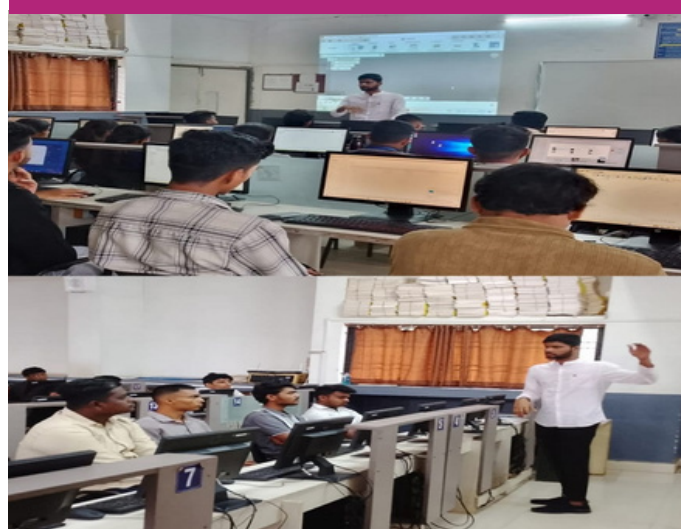
The session Hands on AutoML was conducted on 22/08/2025 by Mr. Arunjit Chowdhury, CEO, EBTS Mumbai for 7<sup>th</sup> Sem Students.

### KSCST Project Awareness



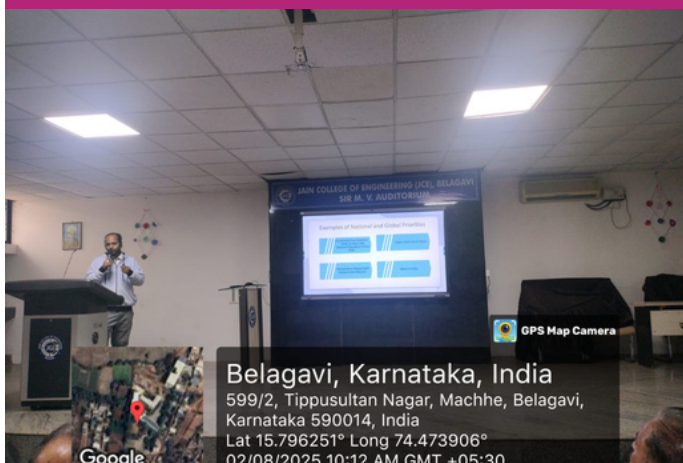
On 10/09/2025 Dr. Anand K. Hosamani, gave an awareness session to the 7th Semester students on KSCST project themes and achievements.

### Hands-on Autodesk Fusion



A one-day hands-on training session on Autodesk Fusion was conducted for 3rd and 5th semester students by Mr. Laxmikanth from ISSCOT on 31/10/2025.

### Knowledge Sharing Session



Effective research proposal writing: tuning research ideas into founded projects by Prof. Uttam Koruche on 02/08/2025.

### Avinya Project Exhibition 2025



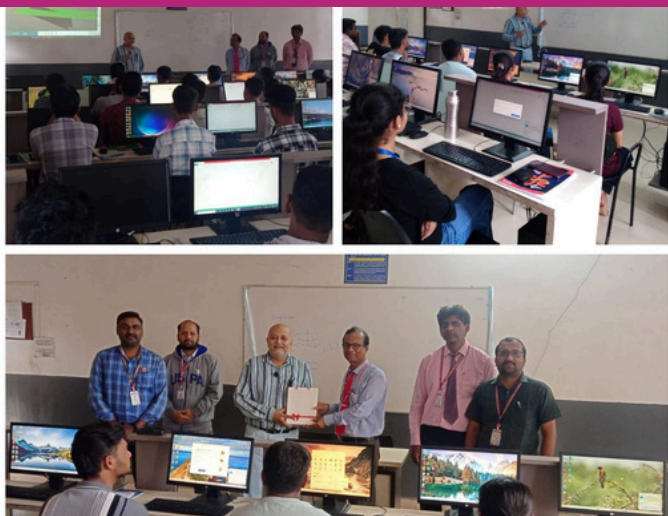
AVINYA 2025, a final-year project exhibition showcasing innovative engineering solutions evaluated by industry expert and alumnus Mr. Rajat Joshi on 02/12/2025.



# Academic and Technical Programs

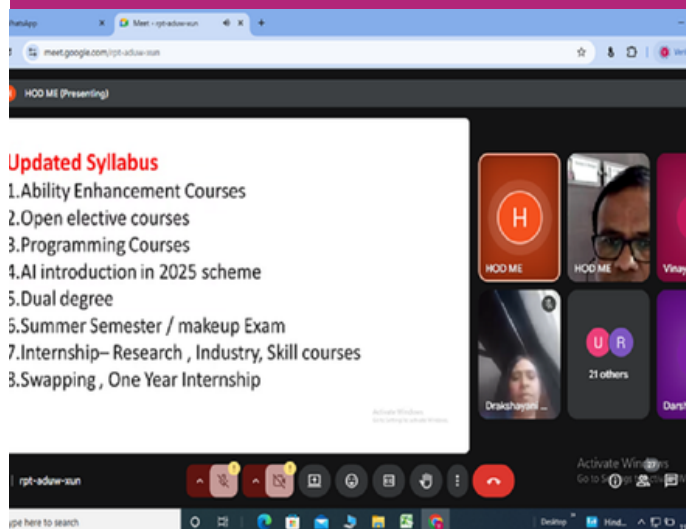


## Expert Talk



On 19/09/2025 an expert Er. Shivakumar Patil, gave career guidance, awareness on ICEM Surf, surface modeling software to 3rd Sem Students.

## Online Parents Meet



On 15/08/2025, an Parents Meet was held to discuss and inform the recent developments and facilities at dept.

## Placement Training



For final year students the session was taken by MBA faculty Dr. Jemson Vaz on Aptitude Skills in August 2025.

## Placement Training



For the session was taken by MBA faculty Prof. Radhika Anvekar on Effective Communication Skills in September 2025

## Expert Talk



On 21/11/2025 expert talk by Cdr. Vijay Koushik enlightened 3rd-semester Mechanical Engineering students about diverse career opportunities, preparation paths, and technical roles in the Indian Navy.

## Expert Talk



On 02/12/2025, Mr. Sai Velangi inspired students through a dynamic session on cultivating entrepreneurial skills and innovative thinking for future engineering leaders.



## Academic and Technical Programs



### ICIMS - 2025



Jamboti, Karnataka, India 🇮🇳

Qfww+gh2, Road, Near Jain Engg College, Tippusultan Nagar, Machhe, Jamboti, Karnataka 590014, India  
Lat 15.796173° Long 74.47402°

On 26/12/2025 and 27/12/2025 International Conference on Intelligent Mobility Systems (ICIMS-2025) was conducted which brought together academicians, industry experts, researchers, and students for two days of insightful discussions and knowledge sharing in the field of Intelligent Mobility Systems.



## Industry & Alumni Interaction



### MG Motors



On 27/08/2025, 5th Semester students visited MG Motors, where Mr. Subham Chougale and faculty members explained various departments and company operations.

### Belcast Iron Foundry



On 19/12/2015, 3<sup>rd</sup> Sem students visited Belcast Iron Foundry, Belagavi to gain practical exposure to foundry operations coordinated by Dr. Anand K Hosamani and Mr. C B. Patil.



# Industry & Alumni Interaction



## Industry Institute Interaction



On 24/12/2025, A meeting with Mr. Y. Yogesh and Mr. R. H. Raghukumar focused on strengthening academic-industry collaboration by Dr. AKH.

## Alumni Interaction



Shweta Badiger 2018 batch (Design Engineer, Air bus) and Rohan S Khaded (Software Engineer, HP) interacted with faculty on 07/05/2025.

## Alumni Talk



Mr. Sahil Loхар, Design Engineer at Dover India Pvt. Ltd., Bangalore briefed on placement preparation for final-year students on 03/09/2025

## Alumni Talk



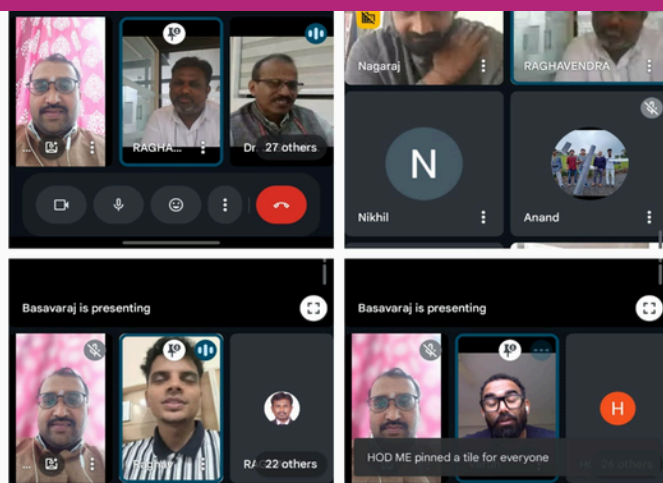
Alumni Mr. Jeevan Kamoji, Officer Cadet, addressed 5th sem students on SSB, SSC, and Army exam preparation, inspiring them with his journey on 09/09/2025

## Alumni Talk



On 03/10/2025 Mr. Gaurav Jadhav, Senior Design Engineer, Trane Technologies, Bangalore gave talk on Advanced Trends in Mechanical Engineering.

## Online Alumni Meet



On 15/08/2025, an Alumni Meet was held to inform the recent developments and also alumni shared their experience.



## Tug of War



A thrilling Tug of War 2025 contest was organized to identify top performers for the college team ahead of upcoming VTU-level competitions on 14/11/2025.

## Karate - State Level



वेळगाव : ब्लॅक बेल्ट वितरणप्रसंगी डॉ. संजय सुंठकर, डॉ. समीर शेख, अनिल अंबरोळे, जितेंद्र काकतीकर व इतर.

### कम्प्लीट कराटे अकॅडमीतर्फे बेल्ट वितरण

वेळगाव : पुढारी वृत्तसेवा कम्प्लीट कराटे अकॅडमीतर्फे कॅम्प येथील शानबाग सभागृहात १४.०५ विद्यार्थ्यांना बेल्ट वितरण करण्यात आले. विनय ओंगी, किशन जी.टी., लक्ष्मण परब, ओमकार रावळ व स्वयंम पाखरे यांना ब्लॅक बेल्ट वितरण करण्यात आले. यावेळी कराटेपटूंना यलो, ऑरेंज, ग्रीन, ब्लू, पार्ल असे बेल्ट वितरण करण्यात आले. यावेळी प्रमुख पाहणे म्हणून डॉ. संजय सुंठकर, डॉ. समीर शेख, अनिल अंबरोळे, सौराभानु एड्केरी उपस्थित होते. कार्यक्रम यशस्वी करण्यासाठी प्रशिक्षक जितेंद्र काकतीकर, अक्षय परमोजी, साहीर शेख, भूपण पाटील, आदित्य मेहरा यांनी परिश्रम घेतले.

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Omkar Raval, 7th Sem have secured a black belt in karate and received the certificate from Karnataka Karate State Secretary, Bhargava Reddy

## Graduation Day



Graduation Day was held for the 2021 passing out students on 09/06/2025.



## Student Achievements & Co-Curricular Activities



### Odd Sem Toppers 2024-25

#### 3rd Sem



**Sunil  
Jayakkanavar**  
2JI24ME447  
86.11%



**Pavan B  
Vardhamane**  
2JI24ME427  
82.44%



**Sonali Patil**  
2JI24ME444  
80.44%

#### 5th Sem



**OMKAR VITHAL  
NILAJKAR**  
2JI23ME422  
89.00%



**AVINASH B  
GHATAGE**  
2JI23ME406  
84.78%



**MAHANTESH R  
ARALIKATTI**  
2JI23ME413  
84.44%

#### 7th Sem



**Shrutika  
Bhatakande**  
2JI22ME427  
85.29%



**Aishwarya  
Tallur**  
2JI22ME402  
81.71%



**Sahil V Lohar**  
2JI21ME002  
81.14%

### Even Sem Toppers 2024-25

#### 4th Sem



**Sunil  
Jayakkanavar**  
2JI24ME447  
78.22%



**Sonali Patil**  
2JI24ME444  
76.44%



**Pavan B  
Vardhamane**  
2JI24ME427  
74.00%

#### 6th Sem



**MALLINATH N  
JAMAKHANDI**  
2JI24ME447  
85.22%



**MAHANTESH R  
ARALIKATTI**  
2JI23ME413  
85.22%



**OMKAR VITHAL  
NILAJKAR**  
2JI23ME422  
85.00%

#### 8th Sem



**Sahil V Lohar**  
2JI21ME002  
98.25%



**MANJUNATH P.  
YAKKUNDI**  
2JI22ME417  
97.25%



**Shrutika  
Bhatakande**  
2JI22ME427  
96.00%



# Student Achievements & Co-Curricular Activities



## KSCST Sponsered Projects



**KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY**

Indian Institute of Science Campus, Bengaluru – 560 012

Website: www.kscst.org.in, https://kscst.karnataka.gov.in || Email: spp@kscst.org.in || Tel: 080-2334 1652,2334 8848/49/40

**48<sup>th</sup> series of Student Project Programme (SPP): 2024-25**

List of Student Project Proposals Approved for Sponsorship, NEFT Details for the amount released and Status of Project Completion Report (PCR) received and UC/SoE Submission by Institutions as on 2 September 2025

738.	48S_BE_0308	A MULTI-PURPOSE PORTABLE CREEP TESTING MACHINE	B.E.	MECHANICAL ENGINEERING	Prof. VINAYAK RATAN Prof. UTTAM KORUCHE	Ms. AISHWARYA A TALLUR Mr. SHUBHAM R PATIL Mr. SHREYASH S PATIL	7,000.00	NO
739.	48S_BE_1758	DESIGN AND DEVELOPMENT OF BIODEGRADABLE PLASTIC BAG FROM POTATO STARCH AND CORN STARCH	B.E.	MECHANICAL ENGINEERING	Prof. UTTAM KORUCHE Dr. RATAN A PATIL	Mr. KETAN SATISH NALAVADE Mr. BHARAT C AMBOLKAR	4,500.00	NO
740.	48S_BE_2011	AGRO PORTABLE SOLAR WEED REMOVAL MACHINE	B.E.	MECHANICAL ENGINEERING	Dr. RATAN A. PATIL	Mr. MAHESH M. DEVAGEKAR Mr. SAHIL H. DESAI Mr. NARAYAN P PHATKE Mr. ANIKET M SAPKALE	6,500.00	YES
741.	48S_BE_3199	DESIGN AND DEVELOPMENT OF SEED BALL DROPPING MECHANISM FOR DRONE	B.E.	MECHANICAL ENGINEERING	Dr. ANAND K. HOSAMANI	Ms. SHRUTIKA SHANKAR BHATKANDE Mr. PRATHAMESH KALKHAMBKAR Mr. PRATIK PATIL Mr. SURAJ KOLE	6,500.00	YES

## Placement Highlights



Sri Bhagawan Mahaveer Jain Educational & Cultural Trust's

**Jain College of Engineering (JCE), Belagavi**

(Approved by AICTE, Recognised by Government of Karnataka & Affiliated to VTU)

**Department of Mechanical Engineering**

*"Congratulations to our placed students –  
your hard work has paved the way to a bright future!"*



CTC - 3.20 Lakh



CTC - 7.5 Lakh



CTC - 2.5 lakhs



Best wishes from the Management,  
Principal, HOD, and Staff



## Certifications & Faculty Development Programs



1. Dr. Basavaraj V. Hubballi completed the NPTEL course “Experimental Robotics” held from Jan - Apr 2025.
2. Dr. Madhavi Magi, Prof. Uttam Koruche completed the NPTEL course “Effective Engineering Teaching In Practice” held from Jan - Apr 2025.
3. Prof. Uttam Koruche has successfully completed one week FDP on “Effective Research Proposal Writing: Turning Research Ideas into Funded Projects” organized by ProMind Research Academy, Erode from 30/06/2025 to 04/07/2025.
4. Dr. Ratan Patil and Prof. Uttam Koruche has successfully completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Sustainable Management of Natural Resources and Waste” at VISVESVARAYA TECHNOLOGICAL UNIVERSITY DEPARTMENT OF PG STUDIES from 18/08/2025 to 23/08/2025.
5. Prof. Darshan Katgeri and Prof. Vinayak Ratan completed one day FDP on “Introduction to AI & its Applications” on conducted in association with VTU on 30/08/2025 at JCE, Belagavi.
6. Prof. Darshan Katgeri and Prof. Vinayak Ratan completed three days National Level Hands-on Workshop on :oracle SQL- Mastering the Fundamentals” organized by department of CSE(AIML) in association with ISTE from 01/09/2025 to 03/09/2025.
7. Dr. Basavaraj Hubballi and Dr. Ratan Patil completed One-Week Faculty Development Program on “Advanced Design and Manufacturing using Autodesk Fusion” organized by the Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology (A), Hyderabad during 04-08-2025 to 09-08-2025.
8. Dr. Basavaraj Hubballi and Dr. Madhavi Magi completed 2 weeks FDP course on “Digital Marketing” organized by SkillDzire in collaboration with AICTE in August 2025.
9. Dr. Basavaraj Hubballi successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Generative AI for Education at Princeton Institute of Engineering & Technology for Women from 18/08/2025 to 23/08/2025.
10. Dr. Anand K. Hosamani, Prof. Narayan Mannurkar, Prof. Vinayak Nannoji and Prof. Rajshekhar Unni successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Emerging Trends in AI for Intelligent Waste Management in Smart Cities at Jain College of Engineering from 15/09/2025 to 20/09/2025.
11. Dr. Madhavi Magi successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Energy, Environment and climate change: Interdisciplinary approaches for sustainable development at SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY from 15/09/2025 to 20/09/2025.
12. Prof. Darshan Katgeri completed Five day FDP on “Next-Gen Teaching: Technology Enhanced Pedagogies for HEI’s” organized by Department of Electrical & Electronics Engineering, JCE, Belagavi from 01/07/2025 to 05/07/2025.
13. Prof. Vinayak Ratan successfully completed the 2 day online FDP on the theme “Innovation and Design Thinking Lab” organized by IMPACT College of Engineering and Applied Sciences, Bengaluru from 12/09/2025 to 13/09/2025.
14. Prof. Jagadeesh S Pattanashetti has successfully completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Design, Development, and Optimization of Electric Vehicles for a Green Future at SHRI MATA VAISHNO DEVI UNIVERSITY from 06/10/2025 to 11/10/2025.
15. Dr. Ratan Patil and Prof. Uttam Koruche has undergone Innovation Ambassador training “Foundation Level” (Total 16 Sessions of 30 contact hours) conducted in online mode by MoE’s Innovation Cell & AICTE on 19/12/2025.
16. Dr. Basavaraj V. Hubballi completed the NPTEL course on “Product Design and Development” held from Jul - Dec 2025.
17. Prof. Uttam Koruche completed FDP on “Introduction to Design and Modeling - BMEL305 using Fusion from Authorized Autodesk Training Centre on 13/09/2025.
18. Dr. Anand K. Hosamani published “Influence of Micro-Sized Filler Reinforcement in Tribological Performance of Ceramic Matrix Composites” as a book chapter in Micro- and Nanocomposites (pp.197-216) 1<sup>st</sup> Edition in Nov 2025.
19. Dr. Madhavi Magi completed the NEP 2020 Orientation & Sensitization Programme in online mode under Malaviya Mission Teacher Training Programme (MMTTP) of MoE, Government of India organized by Malaviya Mission Teacher Training Centre, Shri Ram College of Commerce (MMTTC, SRCC) from 02/12/2025 to 10/12/2025.
20. Dr. Basavaraj V. Hubballi is a Editor for a Book series on “Advances in Manufacturing Engineering: Technology, Processes, and Industrial Innovations.

### Recognition



SAEINDIA Bengaluru Section, proudly recognizes Dr. B V Hubballi Prof. & HoD ME, for his valuable contribution to Advancing the Mobility Ecosystem 2025

## Student Articles

### Biology for Engineers: A New Dimension in Engineering



**Sonali Patil**  
4<sup>th</sup> Sem

In today's rapidly advancing technological landscape, the boundaries between disciplines are gradually fading. One of the most exciting developments is the integration of biology with engineering, giving rise to a new dimension in learning—Biology for Engineers.

Traditionally, engineering focused on machines, structures, and systems. However, with growing interest in sustainable solutions and human-centered design, biological concepts are becoming increasingly relevant. Engineers are now studying principles such as cell structures, biomaterials, and natural processes to develop innovative technologies.

This interdisciplinary approach has opened doors to emerging fields like biomedical engineering, biotechnology, and bio-inspired design. For instance, understanding human physiology helps in designing better medical devices, while studying nature inspires efficient and eco-friendly engineering solutions.

For students, Biology for Engineers offers an opportunity to think beyond conventional boundaries. It enhances analytical thinking, creativity, and problem-solving by combining technical knowledge with life sciences. It also prepares them to tackle real-world challenges in healthcare, environmental sustainability, and advanced materials.

Educational institutions are recognizing this shift and incorporating biology-related subjects into engineering curricula. This not only broadens students' perspectives but also increases their adaptability in a competitive job market.

As engineering continues to evolve, the inclusion of biology is proving to be a game-changer. It is not just an addition to the curriculum—it is a new dimension that is shaping the future of innovation.

In today's rapidly advancing world, engineering is no longer confined to a single domain. "Cross-Disciplinary Approaches in Modern Engineering" highlights the growing need to integrate knowledge from multiple fields to solve complex real-world problems.

Modern engineering challenges—such as sustainable development, smart cities, and advanced healthcare systems—require expertise that goes beyond traditional boundaries. Mechanical engineers collaborate with computer scientists to develop robotics, work with biologists in biomedical innovations, and partner with environmental experts to design sustainable solutions. This blending of disciplines leads to more efficient, creative, and impactful outcomes.

For students, adopting a cross-disciplinary approach means developing skills beyond their core subjects. Learning programming, data analysis, electronics, and even management concepts can significantly enhance their problem-solving abilities. It encourages critical thinking and innovation, enabling them to approach challenges from multiple perspectives.

Educational institutions are actively promoting this approach through project-based learning, interdisciplinary courses, and collaborative research. These initiatives prepare students to work in diverse teams and adapt to evolving industry demands. In the modern era, the most successful engineers are those who can connect ideas across disciplines. Cross-disciplinary learning not only broadens knowledge but also opens doors to new opportunities, making engineers more versatile and future-ready.

Ultimately, innovation thrives at the intersection of disciplines, shaping a smarter and more sustainable world.

### Cross-Disciplinary Approaches in Modern Engineering



**Ranasingh A. Rajput**  
6<sup>th</sup> Sem

## Student Articles

### Can AI Replace Engineers?



**Shrutika  
Bhatkande**  
8<sup>th</sup> Sem

With the rapid growth of Artificial Intelligence (AI), a common question arises—can AI replace engineers? While AI is transforming industries and automating many tasks, the idea of completely replacing engineers is far from reality.

AI excels at handling repetitive work, data analysis, simulations, and optimization. In engineering, it can assist in design calculations, predictive maintenance, and improving efficiency. These capabilities make AI a powerful tool that supports engineers in their work.

However, engineering is not just about calculations and automation. It involves creativity, critical thinking, decision-making, and innovation—qualities that AI cannot fully replicate. Engineers solve complex, real-world problems that require human judgment, ethical considerations, and adaptability. Designing new systems, thinking beyond limitations, and understanding human needs are areas where human engineers remain essential.

Rather than replacing engineers, AI is reshaping their roles. Engineers who adapt and learn to work with AI tools will have an advantage in the future. The focus is shifting from routine tasks to more strategic and innovative responsibilities.

For students, this means developing both technical knowledge and skills like creativity, communication, and continuous learning. Understanding AI and integrating it into engineering practices will open new opportunities.

In conclusion, AI will not replace engineers—it will empower them. The future belongs to those who can combine human intelligence with artificial intelligence to create smarter and more efficient solutions.

Mechanical engineering, one of the core branches of engineering, is rapidly evolving in today's age of innovation. Traditionally focused on machines, manufacturing, and design, it has now expanded into advanced areas such as automation, robotics, renewable energy, and smart technologies.

In modern times, mechanical engineers are not just builders but innovators. With the integration of digital tools like computer-aided design (CAD), simulation, and artificial intelligence, the field has become more dynamic and interdisciplinary. Engineers are now expected to combine mechanical knowledge with electronics, programming, and data analysis to create efficient and sustainable solutions.

For students, this transformation brings both opportunities and challenges. It requires continuous learning, adaptability, and creativity. Classroom knowledge alone is no longer sufficient; practical exposure through projects, internships, and research plays a vital role in shaping future-ready engineers.

Innovation in mechanical engineering is also contributing to global needs. From developing eco-friendly energy systems to designing advanced transportation like electric vehicles, mechanical engineers are at the forefront of change.

Despite these advancements, the fundamentals of the field remain strong. What sets today's engineers apart is their ability to think beyond conventional boundaries and innovate for a better future. Mechanical engineering, in this era, is not just about machines—it is about creating impactful solutions for the world.

### Mechanical Engineering in the Age of Innovation



**Mr. Pratik Anagol**  
3<sup>rd</sup> Sem

## Student Articles

### AI in Everyday Life: Invisible but Powerful



**Mr. Mahantesh  
Aralikatti  
5<sup>th</sup> Sem**

Artificial Intelligence (AI) has quietly become an integral part of our daily lives, often working behind the scenes without us even noticing. “AI in Everyday Life: Invisible but Powerful” highlights how this technology is transforming the way we live, work, and interact.

From voice assistants and personalized recommendations on streaming platforms to navigation systems and smart home devices, AI is everywhere. It helps us choose what to watch, suggests products while shopping online, and even predicts traffic conditions to save time. Though invisible, its presence makes everyday tasks faster, easier, and more efficient.

In education, AI supports personalized learning by adapting content to individual student needs. In healthcare, it assists doctors in diagnosing diseases and improving patient care. Even in banking and security, AI plays a role in detecting fraud and ensuring safer transactions.

Despite its benefits, the growing use of AI also raises questions about privacy, ethics, and job displacement. It is important to use this technology responsibly and ensure that it benefits society as a whole.

For students and future professionals, understanding AI is no longer optional—it is essential. As AI continues to evolve, its influence will only grow stronger. Though we may not always see it, AI is shaping our world in powerful ways, proving that sometimes the most impactful technologies are the ones we barely notice.

In today’s fast-paced academic environment, healthy competition plays a vital role in shaping students’ skills and creativity. Rather than creating pressure, it serves as a motivating force that encourages individuals to perform better, think innovatively, and push their limits.

Healthy competition provides students with opportunities to test their abilities in real-world scenarios. Whether it is technical contests, debates, cultural events, or sports, these platforms help in developing problem-solving skills, confidence, and teamwork. Competing with peers inspires students to learn new techniques, improve their performance, and strive for excellence.

Moreover, competition fosters creativity. When students are challenged, they are more likely to think outside the box and come up with unique ideas and solutions. It encourages them to explore their potential and discover hidden talents that may not emerge in a regular classroom setting.

An important aspect of healthy competition is maintaining a positive mindset. It teaches students to accept both success and failure gracefully. Winning builds confidence, while losing offers valuable lessons and opportunities for growth.

Educational institutions play a crucial role in promoting such an environment by organizing various competitions and encouraging participation from all students. These experiences prepare them for future challenges in both professional and personal life.

In essence, healthy competition is not just about winning—it is about learning, improving, and growing. It transforms students into confident, creative, and capable individuals ready to face the world.

### Enhancing Skills and Creativity Through Healthy Competition



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