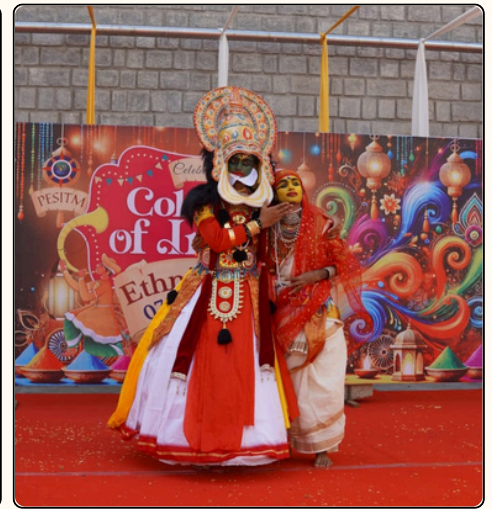


MECHANICAL ENGINEERING NEWSLETTER

“YANTRAMSHA”

INSTITUTE VISION

To be the most preferred Institution for Engineering & Management Education, Research and Entrepreneurship by creating professionally superior and ethically strong global manpower.



*A Skit by Mechanical Engineering students during the Ethnic Day celebration on the theme 'Kerala' at PES Quadrangle
on 07.12.2024*



Glimpses of the Ethnic Day celebration on the theme 'Kerala' at the Mechanical Engineering Department on 07.12.2024

INSTITUTE MISSION

To prepare students for professional accomplishments and responsible global citizenship while fostering continuous learning and to provide state-of-the-art education through the committed and highly skilled faculty by partnering and collaborating with Industry and R&D Institutes.



Mr. Somesh S Salotagi and Mr. Afroz M of 2nd year ME students secured First place in the Quiz competition and won a cash prize of Rs. 5000 at the Two-Day National Level Students Technical Fest "ADVITIYA - 24", held at KLE Institute of Technology, Hubballi, from 29.11.2024 to 30.11.2024



Mr. Harshavardhanachari D and Mr. Dhanush Patil K S of 2nd year ME students secured Second place in the Quiz competition and won a cash prize of Rs. 3000 at the Two-Day National Level Students Technical Fest "ADVITIYA - 24", held at KLE Institute of Technology, Hubballi, from 29.11.2024 to 30.11.2024

DEPARTMENT VISION

To emerge as a center of excellence in the field of Mechanical Engineering Education, Research and Entrepreneurship.



Industrial visit to J K Tyres, Mysuru on 29.11.2024 by 5th and 3rd Sem ME Students



Industrial visit to Elkayem Auto Ancillaries Pvt. Ltd, Mysuru on 30.11.2024 by 5th and 3rd Sem ME Students

Topper details of 2023-24 Even Semester



Shivakumar S M, 8th Sem
Marks: 463/500



Vinay G K, 6th Sem
Marks: 675/800



Rekha J, 4th Sem
Marks: 777/900

DEPARTMENT MISSION

M1- Creating a platform for effective and continuous learning by offering a strong technical knowledge and skills.

M2- To motivate the students in involving academic and research activities for their career excellence and being responsible global citizens.

M3- To include social, ethical and entrepreneurial values for the professional accomplishments.



Industrial visit to DFM Technology Private Limited Bengaluru on 27.11.2024 by 7th Sem ME Students



Industrial visit to Sahyadri Polymers, Machenahalli, Shivamogga on 26.11.2024 by 3rd Sem ME Students



Industrial visit to Spoorthi Packaging Private Limited, Shivamogga on 26.08.2024 by 3rd Sem ME Students

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Group photo during the Inauguration of 4 days Skill Development Program on “CNC Programming and Operation, Hands-On Training”, by Mr. Vijay Kumar S, Project Lead, R&D, GEC, Bengaluru, Dr. Prasanna Kumar H R, Dean (Academics), PESITM, Dr. Girisha L, Professor & Head, Dept. of Mechanical Engineering along with Faculties and participants on 25.11.2024 at ME Seminar hall.



Glimpses of Skill Development Program conducted by Mr. Vijay Kumar S for faculties and students at Machine Shop and ME Seminar hall during 25.11.2024 to 28.11.2024



Offer letter Distribution by Mr. Yashodhan, Engineer, R&D to Mr. Kiran K, Mr. Pradeep Achar S and Mr. Sanjay V C of 7th Semester who got selected for paid Internship at Prerana Engineering Works, Bengaluru on 21.12.2024

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MoU signed with Shalini Thermal Energy Products, Hebri and Department of Mechanical Engineering, PESITM, Shivamogga on 18.10.2024 at STEP, Hebri



Group photo during Ayudha Pooja celebration at Machine Shop with Principal, HODs, Teaching and Non-Teaching faculty members on 10.10.2024



Group photo during Alumni talk on "Effective usage of Autodesk and Revit Softwares in Mechanical Engineering" by Mr. Jayakrishna, Junior Engineer at Enventure, PES Campus, Shivamogga for 3rd sem students on 04.10.2024 at ME Seminar hall.

DEPARTMENT VISION

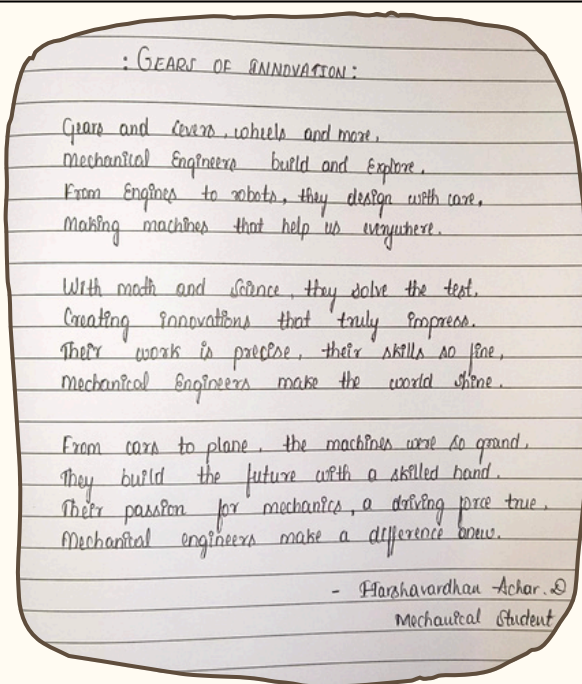
To emerge as a center of excellence in the field of Mechanical Engineering Education, Research and Entrepreneurship

Faculty Achievements

1. **Dr. Girisha L** published a paper entitled "Performance Evaluation of Carbon Fiber Reinforced with Polyethylene Terephthalate Glycol (PETG) in Additive Manufacturing." In E3S Web of Conferences, vol. 588, p. 01014. EDP Sciences, November 2024.
2. **Dr. Girisha L** published a paper entitled "Production and study of microstructure and mechanical characteristics of Al7075-boron carbide composites for automotive applications", Journal of The Institution of Engineers (India): Series D, 1-10, October 2024.
3. **Dr. Girisha L** delivered a Technical Talk on "Advancements in Nanotechnology for automotive applications: Opportunities and challenges", during VGST sponsored 4 Days FDP at BITM, Ballari on 19.09.2024
4. **Dr. Girisha L** delivered a Technical Talk as a Key Resource Person in the Two days Training Program for Learning Science via Standards organized by Bureau of Indian Standards, Hubli on the Topic, "Transacting Lesson Plans on Products", on 29th and 30th August 2024.
5. **Dr. Manjunath Patel G C** published a paper entitled "Optimizing engine performance and emission properties with Garcinia indica biodiesel: a holistic RSM-TLBO-DFA strategy", Biofuels. 2024 Dec 13:1-8.
6. **Dr. Manjunath Patel G C** published a paper entitled "Review of Image Processing Methods for Surface and Tool Condition Assessments in Machining", Journal of Manufacturing and Materials Processing. 2024 Oct 31;8(6):244.
7. **Dr. Manjunath Patel G C** published a paper entitled "RSM integrated GWO, Driving Training, and Election-Based Algorithms for optimising ethylic biodiesel from ternary oil of neem, animal fat, and jatropha", Scientific Reports. 2024 Sep 12;14(1):21289.
8. **Dr. Ashok R Banagar** published a paper entitled "Influence of suspended cenospheres on the mechanical characteristics and wear loss of natural fiber-reinforced hybrid composites: implications for biomedical applications and sustainable material management", RSC advances. 2024 October;14(45):33332-44.
9. **Dr. Ashok R Banagar** published a paper entitled "Experimental investigation on CO2 emission characteristics of modified SI-engine with direct fuel injection (DFI) technique", ES Energy & Environment. 2024 Sep 12;25:1223.
10. **Dr. Ashok R Banagar** delivered a Technical Talk on "Use of nano-materials in the performance of Bio-composites for the low load application in the Automobiles", during VGST sponsored 4 Days FDP at BITM, Ballari on 19.09.2024
11. **Mr. Praveena R** has successfully completed 8-week NPTEL Course of JUL-SEP 2024 term on "Robotics", with a consolidated score of 58%.
12. **Mr. Praveena R and Mr. Ajey C P** has successfully completed one week Faculty Development Program on "Full Stack Development", organized by Department of Artificial Intelligence and Machine Learning, PESITM, Shivamogga from 17.09.2024 to 21.09.2024



Art by Mr. Harshavardhanachari D,
2nd year student



Poem about Mechanical Engineers by Mr.
Harshavardhanachari D, 2nd year student

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M3- To include social, ethical and entrepreneurial values for the professional accomplishments.

Students Achievements/Participations

1. Mr. Somesh S Salotagi, 2nd year ME student secured **Second place** in the **Script Mania** competition and won a cash prize of Rs. 3000 during Two-Day National Level Students Technical Fest "ADVITIYA - 24", held at KLE Institute of Technology, Hubballi, from 29.11.2024 to 30.11.2024

2. Mr. Dhanush Patil K S and Mr. Afroz M, 2nd year Mechanical Engineering student participated in **Build machine** competition at Two-Day National Level Students Technical Fest "ADVITIYA - 24", held at KLE Institute of Technology, Hubballi, from 29.11.2024 to 30.11.2024

3. Mr. Harshavardhanachari D, 2nd year Mechanical Engineering student participated in **Paper presentation** competition at Two-Day National Level Students Technical Fest "ADVITIYA - 24", held at KLE Institute of Technology, Hubballi, from 29.11.2024 to 30.11.2024

4. Mr. Somesh S Salotagi and Mr. Harshavardhanachari D, 2nd year Mechanical Engineering Students presented a **Research Paper** in National Level Symposium on Materials for Sustainability-2024 at Poornapragna College Udupi on 09.10.2024.

Call for Newsletter Articles

We need articles for future additions of Newsletter

Please consider providing a short item of news, or an in depth article for the next edition of the newsletter. We would like to invite everybody to submit a short story/ article/ announcement that can fit in the following structure:

News items and announcements

- Short, topical, news oriented technical/ non-technical topics.
- Paintings, sketches, comics, poems, dag-writings, short stories etc.
- Major and minor technical articles are also accepted.
- Jokes, Punch dialogues, quotes of your own could be included.
- All of above said matters could be accepted in English or in kannada formats

Feel free to communicate with the student and staff coordinators for more details.

- Editor



EDITORIAL TEAM (L to R)

Mr. Harshavardhanachari D (3rd Sem)

Mr . Ajey C P (Asst. Prof.)

Dr. Girisha L (Prof. & Head)

Mr. Vinay G K (7th Sem)

Mr. Yashas R (5th Sem)