



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.



Offer Letter distribution to Final Year Students of Mechanical Engineering Students on 30.05.2023 by Smt. S Y Arunadevi, Trustee, PES Trust, Shivamogga and Mr. D S Chandrashekar, Vice-Chairman, Shanthala Sperocast Pvt.ltd, Shivamogga at Prerana Convention Hall



Inauguration of Engineer's Day by Sri. T N Paramashekar, Chairman, IIF Shivamogga Chapter, Dr. Chaitanya Kumar M V, Principal, PESITM and Dr. Nagaraja R, CCA, PES Trust on 15.09.2023 at PES Campus

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.



Distribution of certificates for the Winners(left), first runner(middle) and second runner(right) of Quiz competition organized on the occasion of Engineer's Day by the chief Guest, Principal and CCA on 15.09.2023



Inauguration of BIS Standard Club (SC-4460) by the Chief Guests Sri. M M Jayaswamy, Sri. M Ahmed Bijapur, Sri. Bharath J K and Dr. Chaitanya Kumar M V, Principal, PESITM on 12.09.2023 at ME Seminar Hall

Topper details of 2022-23 odd Semester



Akanksha N, 7th Sem
Marks: 715/800



Shivakumar S M, 5th Sem
Marks: 739/900



Vinay G K, 3rd Sem
Marks: 701/800

DEPARTMENT VISION

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



One day Technical talk on Natural Fiber reinforced composites by Dr. Laxmana Naik L, HoD, ME Department, Malnad College of Engineering, Hassan (2nd from left) on 29.08.2023 for ME Students



Industrial visit to Schneider Electric India Pvt. Ltd., Mysuru by 4th Sem ME Students on 18.08.2023



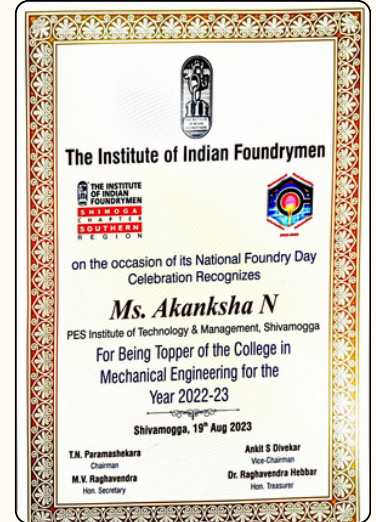
Industrial visit to Bharat Earth Movers Ltd., Mysuru by 4th Sem ME Students on 19.08.2023

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.



Recognition to Ms. Akanksha N of Final year ME student by IIF, Shivamogga Chapter for being Topper of the College in Mechanical Engineering for the year 2022-23 on 19.08.2023



Principal addressing the students during one day Workshop on AUTODESK FUSION 360 on 08.05.2023 at ME Seminar Hall



Group photo during one day Workshop on AUTODESK FUSION 360 by Mr. Abhinandan (3rd from left), Medini technologies, Bengaluru on 08.05.2023 at ME Seminar Hall



Alumni Talk by Mr. Rahul Kahyap A N (2013-17 batch), Founder, Shri Mahalakshmi Technocrats, Bengaluru on 22.07.2023 for 4th semester ME Students at ME Seminar Hall

INSTITUTE VISION

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



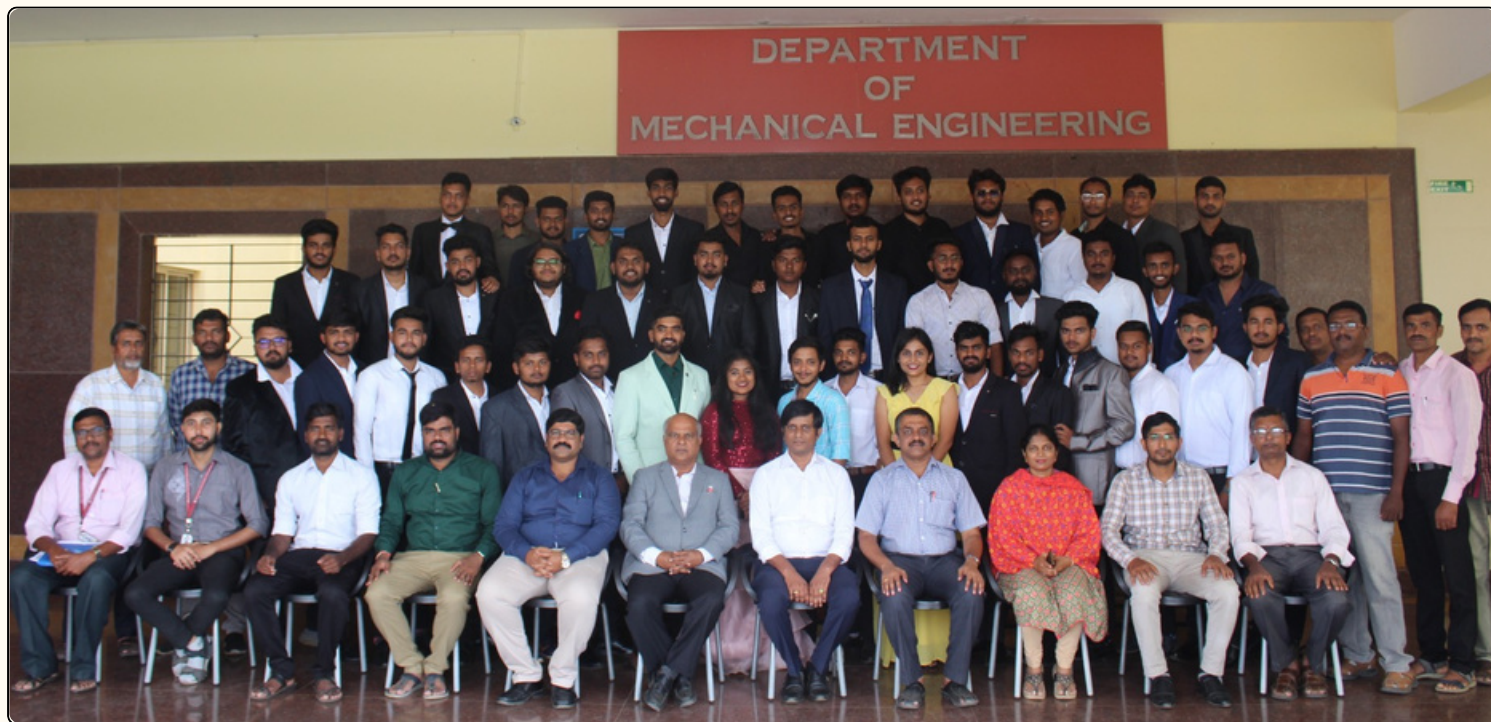
Group photo during technical talk on Thermal Management in EV by Dr. Kiran R (4th from left), Lead Engineer, BUYMYEV Pvt. Ltd, Bengaluru for 6th Sem Students on 13.05.2023 at ME Seminar Hall

Placement Details for the Academic Year 2022-23

Sl. No	USN	Name of the Student	Companies Placed
1	4PM18ME029	MUHAMMAD SHADAAB	ACADEMOR, CHEGG, ETHNUS, IMMENSHERE
2	4PM18ME046	SAGAR C SANADI	NOVEL
3	4PM18ME052	SHASHIDHARA H A	NOVEL
4	4PM19ME001	ABHISHEK B M	CHEGG, RUPEEK, ENVENTURE, TECHNOLOGICS
5	4PM19ME003	AKANKSHA N	QUALITEST, MALNAD ALLOY
6	4PM19ME004	AKASH H	NOVEL
7	4PM19ME008	ARVIN DCOSTA	CHEGG, RUPEEK, NOVEL, ENVENTURE
8	4PM19ME009	CHINMAI KUMAR B S	TATA ELXSI
9	4PM19ME011	KIRAN M	RUPEEK, NOVEL
10	4PM19ME013	M P JASHWANTH SWAMY	ACADEMOR, RUPEEK, VINTRUS, TATA ELXSI, TEACHNOOK
11	4PM19ME014	MANISH G J	INTELLIPAAT, RUPEEK, IMMENSHERE, TEACHNOOK
12	4PM19ME017	NITHIN C B	ENVENTURE
13	4PM19ME018	PARAMESHWAR MU	RUPEEK, ENVENTURE
14	4PM19ME020	SAGAR ND	CADMAXX
15	4PM19ME021	SANJAY U	CHEGG
16	4PM19ME023	SHIVA KUMAR M	CHEGG, ENVENTURE
17	4PM19ME026	TEJU D S	TRIVENI TURBINES
18	4PM19ME027	VINAY B H	NOVEL
19	4PM19ME028	VISHWANATHA B NEELAGUNDA	VINTRUS, IMMENSHERE
20	4PM20ME400	ABDUL KHADER	ACADEMOR, CHEGG, VINTRUS
21	4PM20ME403	H SHARASCHANDRA TEJASWI	ENVENTURE
22	4PM20ME405	MANJESHA G MATTUR	CHEGG, ENVENTURE
23	4PM20ME407	NAGASURAKSHITH KR	INTELLIPAAT, ENVENTURE
24	4PM20ME411	PRAVEEN HP	VINTRUS
25	4PM20ME412	PREM B S	CHEGG
26	4PM20ME415	THILAK N HEBBUR	RUPEEK
27	4PM20ME416	VINAY P	CHEGG
28	4PM20ME417	VIVEK CHAVAN M	CHEGG

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.



Group photo of Final Year ME Students of batch 2019-23 along with Principal, Hod, ME and Staff members during Farewell Day on 06.05.2023 at ME Department



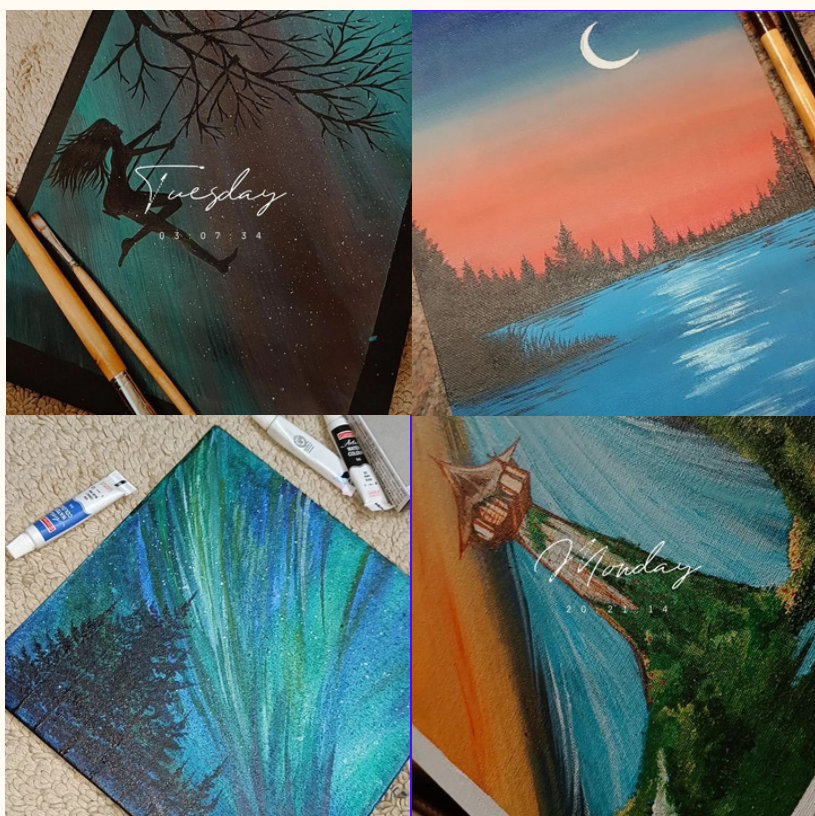
Group photo of Final Year ME Students of batch 2019-23 along with Principal, Hod, ME and Staff members during Graduation Day on 15.04.2023 at Prerana Convention Hall

DEPARTMENT VISION

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

Faculty Achievements

1. **Dr. Manjunath Patel G C** published a paper entitled “Experimental Investigation of Compression Ignition Engine Combustion, Performance, and Emission Characteristics of Ternary Blends with Higher Alcohols (1-Heptanol and n-Octanol)” in *Energies*, 16(18), 6582, 13 September 2023
2. **Dr. Girisha L** published a paper entitled “Development of an efficient bi-layer absorber based on WSe₂ and LaCoO₃ nanopowders for X-band frequency: Computational and experimental validation” in *Vacuum*, 214, 112164, August 2023.
3. **Dr. Manjunath Patel G C** published a paper entitled “Optimization of Machining Parameters to Minimize Cutting Forces and Surface Roughness in Micro-Milling of Mg13Sn Alloy” in *Micromachines*, 14(8), 1590, 12 August 2023
4. **Mr. Kiran Kumar K** published a paper entitled “Performance Evaluation Based on Exergy Analysis Through Partially Filled Metal Foams in Forced Convection” in *ASME Journal of Heat and Mass Transfer*, Vol. 145, Issue 8, Aug 2023.
5. **Mrs. Ramya C R** published a paper entitled “Experimental Study of Railway Track Crack Detection Using Arduino” in *IRJET*, Volume 10, Issue 8, August 2023
6. **Dr. Girisha L, Dr. Manjunath Patel G C** published a paper entitled “Optimization of stir casting and drilling process parameters of hybrid composites” in *Journal of Alloys and Metallurgical Systems*, 3, 100023, 26 July 2023.
7. **Mr. Praveena R, Mr. Mujibur Rehman, Mr. Ajey C P, Mr. Koushik P K, Dr. Ashok R B** published a paper entitled “Analysis on the stretcher frame of an ambulance by the Arduino UNO-R3 code and Ansys work bench for the vibration optimization” in *IJSET*, Volume 11, Issue 4, 20 July 2023
8. **Mr. Kiran Kumar K** published a paper entitled “Minimization of Exergy Destruction with Discrete Metal Foam Filling in a Pipe under Turbulent Flow Condition” in *International Journal of Numerical Methods for Heat and Fluid Flow*, Vol. 33 No. 10, pp. 3353-3384. Article publication date: 7 July 2023.
9. **Dr. Manjunath Patel G C** published a paper entitled “Physico-Mechanical Property Evaluation and Morphology Study of Moisture-Treated Hemp–Banana Natural-Fiber-Reinforced Green Composites” in *Journal of Composites Science*, 7(7), 266, 24 June 2023.
10. **Dr. Girisha L** published a paper entitled “Assessment of mechanical properties on abaca fiber strengthened nano sandstone filler hybrid polymer composite” in *Materials Today: Proceedings*, 8 June 2023.
12. **Mr. Kiran Kumar K** published a paper entitled “Exergy Transfer and Irreversibility of Metal Foams Filled in a Vertical Channel” in *ASME Journal of Thermal Science and Engineering Applications*. Vol. 15, Issue 8, 081005-1-15, 19 May 2023.
13. **Dr. Girisha L** published a paper entitled “Analyzing the mechanical and thermal property of hybrid natural fibers through reinforced polylactic acid composites” in *AIP Conference Proceedings* (Vol. 2521, No. 1), AIP Publishing, 08 May 2023.
14. **Dr. Preetham B M** presented a paper entitled “Performance analysis of compact heat exchanger using reduced graphene oxide nanofluid” at 21st ISME International Conference on Advances in Mechanical Engineering (ISME-2023) from 13.07.2023 to 15.07.2023 at PES University, Bengaluru.
15. **Dr. Preetham B M** served as Research paper reviewer for 21st ISME International Conference on Advances in Mechanical Engineering (ISME-2023) from 13.07.2023 to 15.07.2023 at PES University, Bengaluru.
16. **Mr. Kiran Kumar K** presented a paper entitled “Determination of Exergy Limits for Different Metal Foam Configurations” at the International Conference on RAMATES-2023 from 10.05.2023 to 12.05.2023 at NITK, Surathkal.
17. **Mr. Tharanatha H** completed the translation of Textbook entitled “Energy Science Engineering” in Kannada language under AICTE UG/PG/Diploma Textbook translation scheme on 27 June 2023.
18. **Mr. Kiran Kumar K** completed the translation of NPTEL Courses in Kannada language for the subjects of Applied Thermodynamics for Engineers, Industrial Automation and Control, and Product Design and Development.
19. **Mr. Ajey C P** completed the translation of NPTEL Courses in Kannada language for the subjects of Introduction to Rings and Fields, Rapid Manufacturing and Concepts of Thermodynamics.



Arts by Ms. Snigdha P of 8th Sem ME



Art by Ms. Vaishnai H R of 6th Sem ME

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.

Grants received by the External Agencies

Dr. Manjunath Patel G C, Associate Professor, Dept. of ME received a grant of **Rs. 3 lakhs** under the scheme Research Grant for Scientist/Faculty, sponsored by **VGST, Bengaluru** for the year 2022-23.

Students Achievements

1. Mr. Karan Mahalatkar completed Certification course on Developer Virtual Experience program offered by **Forage** on 20.08.2023

2. Abhishek Y, Karan Mahalatkar, Stephen FS published a paper entitled “Experimental Study of Railway Track Crack Detection Using Arduino” in **IRJET, Volume 10, Issue 8, August 2023**

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)

Ms. Vaishnavi H R (6th Sem)

Mr. Vinay G K (4th Sem)

Dr. Girisha L (Prof. & Head)

Mr . Ajey C P (Asst. Prof.)

Mr. Shivakumar M. (8th Sem)