RESUME

Office Address

Associate Professor
Department of Mechanical Engineering,
Engineering & Technology Program
Rushikonda, Visakhapatnam-530045
Tel.: +91 9848855111
E-mail: gireeshhima@gvpcdpgc.edu.in

Dr.Ch. Himagireesh

Born on 25-08-1985 at Visakhapatnam, Andhra Pradesh, India.

Home Address

D.No.39-9-17-4/12,
Sree Ganesh Sadhan, Flat No.304
Muralinagar,
Visakhapatnam-530007
Phone: +91 9346093417
Aadhaar Number:778786021812
E-mail: gireshhima@gmail.com

EDUCATIONAL QUALIFICATIONS

- AICTE-QIP-PG Certificate Programme in Artificial Intelligence & Machine Learning Indian Institute of Information Technology (IIIT) Una, Himachal Pradesh. Duration: July 2024 – December 2024.
- Completed Doctor of Philosophy (**PhD)** in 2021 in Department of Mechanical Engineering at Andhra University College of Engineering, Andhra University, Visakhapatnam.
- Completed MASTERS IN ENGINEERING with CAD/CAM specialization with 7.11 CGPA during 2009-2011 from Andhra University College of Engineering, Andhra University, Visakhapatnam.
- Completed BACHELOR OF TECHNOLOGY with MECHANICAL ENGINEERING as specialization with 66.52% during 2002-2006 from Gudlavalleru Engineering College affiliated to JNTU, Hyderabad.
- Completed BOARD OF INTERMEDIATE (INTER) with 81.1% in the year 2002 at Vikas Junior College.
- Completed SECONDARY SCHOOL CERTIFICATE (SSC) with 78% in the year 2000 at Madhava Murali Vidya Kendram, Visakhapatnam.

WORK EXPERIENCE: 17 Years 10 Month

- Appointed as Head of the Department, Department of Mechanical Engineering at Gayatri Vidya Parishad College for Degree and P.G. Courses (A), Visakhapatnam, for a period of three years starting from November 15, 2023, in addition to regular teaching duties and overseeing academic and administrative functions of the department.
- Working as an Associate Professor in Gayathi Vidya Parishad College for Degree & PG Courses, Engineering and Technology program, Rushikonda, Visakhapatnam from April 2023 to November 2023.
- Worked as an Assistant Professor in Gayathri Vidya Parishad College for Degree & PG Courses, Engineering and Technology program, Rushikonda, Visakhapatnam from June 2013 to April 2023.

Academics:

- Subjects Taught: Strength of Materials, Advanced Strength of materials, Engineering Graphics
- Labs Handled: Strength of Materials, Metrology and Mechatronics, Manufacturing Technology, CAD (Computer Aided Design), Work Shop.

Administration:

- Presently acted as Department Placement Coordinator.
- Worked as coordinator of Department Internal Examination Cell.
- Worked as Department coordinator for External Examination Cell.
- Worked as an Attendance In charge.

- Worked as an Assistant professor in SITAM Engineering College, Vizianagaram from July 2012 to MAY 2013.

  Academics:

  - Subjects Taught: Mechanics of Solids-I, Mechanics of Solids-II, Engineering Graphics.
  - Labs Handled: Strength of Materials, Manufacturing Technology.

- Worked as an Assistant professor in Wellfare Institute of Science Technology & Management from JUL 2011 to JUN 2012.

  Academics:

  - Subjects Taught: Mechanics of Solids-I, Mechanics of Solids-II, Theory of Machines, Engineering Graphics.
  - Labs Handled: Strength of Materials, Metrology and Mechatronics.

  Administration:

  - Acted as In-charge HOD.
  - Worked as Class Teacher.

- Worked as a Assistant Professor in Avanti Institute Of Engineering and Technology from AUG 2007 to OCT 2009.

  Academics:

  - Subjects Taught: Strength of Materials, Engineering Mechanics, Engineering Graphics and CAD.

RESEARCH INFORMATION

ORCID ID	**: 0000-0002-8061-8980**
Papers in Journals & Conference Proceedings	**:** 19 (International: 18 National: 1)
Papers Indexed in Scopus	**:** 13
Papers Indexed in ESCI/SCIE/SCI	**:** 3
Google Scholar Citations	**: 285** (h-index: 5 i10 index: 2) (as on 029/06/2025)
Published Book Chapters	**:** 3
No. of B. Tech Projects Guided	**:** 25

PUBLICATION OF PAPERS IN NATIONAL JOURNALS

1. PavanKumar Konchanda, P.V. Vinay, **Ch. Himagireesh,** "Augmentation of Heat transfer In a Trough Shaped Solar Collector Compared to Flat Plate Collector Using CFD" Journal of thermal engineering and applications. Vol.1, No.3 (2014)

PUBLICATION OF PAPERS IN INTERNATIONAL JOURNALS

2. KB, P. V. V., Prasad, M. V., **Himagireesh, Ch.,** & Taj. "Mechanical characterization of eco-friendly hybrid composites reinforced with camel hair fiber, sisal fiber, and kenaf fiber." Tuijin Jishu/Journal of Propulsion Technology, 46(1), 634–641. (2025) (Scopus)

3. **Himagireesh, C. H**., Pallavi, I. S., Sekhar, Y. D., & Prasad, M. V. "Predictive modeling of shielding effectiveness in Al6061 composites using machine learning and network analyzer data: A comparative study of fly ash and aloe vera reinforcements." Tuijin Jishu/Journal of Propulsion Technology, 46(1), 665–674. (2025) (Scopus)

4. Kiranmayi, P., Taj, Hymavathi, M., Vijaya babu, V., Vinay, P. V., & **Himagireesh, C.** "Application of Machine Learning Ensemble Methods for Prediction of Surface Roughness for Fused Deposition Modeling Processed Parts." In International Conference on Additive Manufacturing (pp. 369-381). Singapore: Springer Nature Singapore. (2024) (Scopus)

5. Nagasree, P. S., Vandana, K. V., **Gireesh, C. H**., Naidu, M. K., & Prasad, C. (2024). "Integrated MCDM techniques for the selection of hybrid MWCNT/Ni–Zn–Fe nanocomposites for X-band radar absorption applications." Inorganic Chemistry Communications, 161, 112139. (2024) (Scopus) (SCIE)

6. Taj, Hymavathi, M. & **Himagireesh, Ch.,** "Experimental study on surface characteristics of Inconel 718 sheets cutting with nitrogen-assist laser beam." *Tuijin Jishu/Journal of Propulsion Technology*, *45*(4), 1695–1704. (2024) (Scopus)

7. **Himagireesh, C**., PV, P., & Taj, T. "Selection of dream-11 players in T-20 cricket by using TOPSIS method." *Management Science Letters*, *13*(4), 257-264. (2023) (UGC)

8. Y. Appa Rao, Koona, R., & **Ch. Himagireesh,** "Selection of Optimum Hybrid Composite Material for Structural Applications Through TOPSIS Technique." International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS), 10(1), 1-15. (2022) (SCOPUS)

9. Prasad, K. D., Murthy, P. K., **Ch. Himagireesh**., & Sravani, K. D. S. "Conceptual design of ergonomic food truck using QFD-GRA-DSM hybrid methodology-a case study." International Journal of Industrial and Systems Engineering, 40(2), 255-275. (2022) (SCOPUS)

10. **Ch. Himagireesh,** Ramji, K., Prasad, K. D., & Kiran, V. H., "Multi-Criteria Decision Model for Selection of a Material Suitable to Lightning Strike Protection in Aerospace Applications." Materials Today: Proceedings. (2022) (SCOPUS)

11. Prasad, K. D., Murthy, P. K., **Ch. Himagireesh,** Prasad, M., & Sravani, K. "Prioritization of E-Waste Management Strategies Towards Green Computing Using AHP-QFD Approach." Proc. Eng, 3, 33-40. (2021) (SCOPUS)

12. Kishore, N. P., Shaik, T., **Ch. Himagireesh,** Prasad, K. D., & Alekhya, N. "Cryogenic Heat Treatment Process for D2 Steel & M2 Steel." In AIP Conference Proceedings (Vol. 2269, No. 1, p. 030082). AIP Publishing LLC. (2020) (SCOPUS)

13. **Ch. Himagireesh**, Ramji, K., Prasad, K. D., & Srinu, B. "Study of Mechanical Properties and EMI Shielding behavior of Al6061 Hybrid Metal Matrix Composites." International Journal of Surface Engineering and Interdisciplinary Materials Science (IJSEIMS), 7(2), 48-63. (2019) (SCOPUS)

14. Ramji K., **Ch Himagireesh**, "Experimental Investigation On Mechanical Properties Of Al 6061 Metal Matrix Composite Reinforced With Aloe VeraPowder" International Journal of Engineering and Advanced Technology (IJEAT),8(4),1519-1522.(2019)

15. **Ch Himagireesh**., Durga Prasad, K. G., & Ramji, K. "Experimental investigation on mechanical properties of an Al6061 hybrid metal matrix composite." *Journal of Composites Science*, *2*(3), 49. (2018) (SCOPUS & ESCI)

16. **Ch. Himagireesh**, Ramji, K., "Electromagnetic Shielding Effectiveness of Al6061 Hybrid Metal Matrix Composites" Jour of Adv Research in Dynamical & Control Systems,10(5),389-395. (2018)

17. **Gireesh, C. H**., Prasad, K. D., Ramji, K., & Vinay, P. V. "Mechanical characterization of aluminum metal matrix composite reinforced with aloe vera powder." Materials Today: Proceedings, 5(2), 3289-3297. (2018). (SCOPUS)

18. Durga Prasad, K. G., Prasad, M. V., Ch. Himagireesh., & Chaitanya, V. V. V. N. K. "QFD-Based Ergonomic Design Of Drafting Table For Engineering Students: A Case Study." In *Ergonomic Design of Products and Worksystems-21st Century Perspectives of Asia* (pp. 139-153). Springer, Singapore. (2018). (SCOPUS)

19. Prasad, K. D., Subbaiah, K. V., Ch. Himagireesh & Koushik, U. "Evaluation of Conceptual Product Design Solutions Using House of Quality- Topsis." SSRG International Journal of Mechanical Engineering (IJME), 206-212 (2017).

20. **Himagireesh, C**., Vinay, P. V., Murali, C., Siva Nagasree, P., & Kiranmayi, P. (**Under review**). Prediction of mechanical stress parameters in alloys: A regression-based machine learning approach. Journal of The Institution of Engineers (India): Series C.

21. **Himagireesh, C**., Siva Nagasree, P., Bhagavathi, L. R., Vinay, P. V., & Vishnu Vandana, K. L. (**Under review**). Reinforcement learning-based prediction and optimization of shielding effectiveness in MWCNT-NZF hybrid epoxy composites. ACS Applied Electronic Materials.

22. Srinu, B., **Chigurupalli, H**., Suribabu Naick, B., Sri Surya Srikanth, S., Srinivasa Rao, S., & Ravi Kiran, B. (**under review**). Reinforcement learning for optimizing electromagnetic shielding effectiveness of Al6061-based composites: A review. ACS Applied Engineering Materials. Manuscript submitted for publication.

23. Shatrughan Modi, **Himagireesh, Ch**., Srinu, B., Durga Rao, J., & Vinay, P. V. (**under review**). A comparative study of ML models for predicting discharge time and travel distance in electric vehicles. Proceedings of the 3rd International Conference on Women Researchers in Electronics and Computing (WREC'25), Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India. Manuscript under review.

CONFERENCES ATTENDED

1. K.G.Durga Prasad, K.Venkata Subbaiah, G.V.Gourav and **Ch.Himagireesh** (2017): 'QFD-frame work for enhancing quality in engineering educational institutions, ***Proceedings of the International Symposium on Social Business and Sustainable Development (SBSD)*** held at Andhra University, Visakhapatnam, during 5-7, January.
2. **Ch.Himagireesh**, K.G.Durga Prasad, K.Ramji, and P.V.Vinay (2017): 'Mechanical Characterization of Aluminium based metal matrix composite reinforced with Alovera Powder', ***Proceedings of the International Conference on Material Processing and Characterization (ICMPC)*** held at **GRIET, Hyderabad**, during 17-19, March.
3. **Ch.Himagireesh,** K.Ramji, K.G.Durga Prasad, and V.Harikiran (2021): 'Multi-criteria decision model for selection of a material suitable to lightning strike protection in aerospace applications.' ***The 2021 Third International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2021)*** held at Department of Mechanical Engineering, D.Y. Patil College of Engineering and Technology. Kolhapur, Maharastra, India during 25 – 26, November 2021.

CONSULTANCY WORKS

1. Worked as Co-Investigator for the design and analysis of **50 TON SWL SPREADER BEAM (LIFTING BEAM)**

Principal Investigator	**:**	**Prof. K. Ramji** **Dept. of Mechanical Engg. AUCE (A), Andhra University** **Visakhapatnam – 530 003**
Client	**:**	**M.Raj & Co.** **D/No: 28-9-7, Suryabagh,** **Visakhapatnam,** **Andhra Pradesh.**

SPONSORED RESEARCH PROJECTS

1. Working as a **Co-Investigator** for the project sanctioned by **MSME** (Ministry of Micro, Small & Medium Enterprises) in **HACKATHON-2022**

TITLE OF PROJECT: "Low-cost manual tuber vegetable product cleaning machine**" Principal Investigator** **:** **Prof. P.V.Vinay**
Dept. of Mechanical Engg.
Engineering & Technology Program GVP College for Degree and PG Courses (A)
Rushikonda, Visakhapatnam
Visakhapatnam – 530 045

Sanctioned amount of Project **:** **Three Lakh Twenty Thousand Rupees (3, 20,000 Rs)**

(Dr.Ch.Himagireesh)