

Dr. P S Hemavathi

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Education

	Degree	Year	Institute	Specialization
1	Ph.D.	2019	V.S.K. University	Discrete Mathematics
2	M.Sc.	2005	Bangalore University	Applied Mathematics
3	B.Sc.	2001	Bangalore University	Physics Chemistry Mathematics

Professional Experience

	Date (from-to)	Designation	Organization
1	2011 to till Date	Assistant Professor	Siddaganga Institute of Technology
2	13-08- 2007 to 2011	Lecturer	Siddaganga Institute of Technology

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

NIL

Affiliations of Professional organizations

NIL

Awards and Honors

Awards for Research Publications(ARP); Ycar 2020-2021 from VISION GROUP ON SCIENCE AND TECHNOI.(VGST)

Courses Taught

Undergraduate Courses

- Engineering Mathematics-I
- Engineering Mathematics-II
- Engineering Mathematics-III
- Engineering Mathematics-IV
- DMS
- Linear Algebra
- Statistics and Probability for Engineering
- Foundations of Mathematics
- Probability and its Applications for Information Technology

- Mathematical concepts for Information Technology

Postgraduate Courses

- Master of Computer Application

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1	MANGALA GOWRAMMA H. (IS118PMA01)	Some Investigations in the Theory of Graphs	2025

Research Areas

- Discrete Mathematics

Sponsored Projects

Ongoing Projects:

NIL

Completed Projects:

1. Title: Mathematical Properties of Graph based Molecular Descriptors and their Applications

Funding Agency: TEQIP Competitive Research Grant, Visvesvaraya
Technological University
Amount: One Lakh
Duration: One Year
Role: Principal Investigator

Publications

Journals

- Hemavathi, P.S., Prakasha, K.N., "MINIMUM BOUNDARY DOMINATING PARTITION ENERGY OF CERTAIN GRAPHS", Proceedings of the Jangjeon Mathematical Society, 2025, 28(2), pp. 189–195
- Gowramma, H.M., Reddy, P.S.K., Hemavathi, P.S., Pavithra, M., Rajendra, R., "TOTAL STRESS AS A TOPOLOGICAL INDEX", Proceedings of the Jangjeon Mathematical Society, 2025, 28(2), pp. 181–188
- Hemavathi, P.S., Mangala Gowramma, H., Kirankumar, M., ... Pavithra, M., Siva Kota Reddy, P., "ON MINIMUM STRESS ENERGY OF GRAPHS", Journal of Applied Mathematics and Informatics, 2025, 43(2), pp. 543–557.
- Hemavathi, P.S., Manjunath, M., Pralahad, M., Veeresh, S.M., "STUDY ON LINE GRAPH OF SOME GRAPH OPERATORS OF CHEMICAL STRUCTURES VIA F AND M1 INDICES", Journal of Applied Mathematics and Informatics, 2024, 42(1), pp. 159–167.
- Vijay, S., Prakasha, K.N., Hemavathi, P.S., Kini, S.G., "LE-DEGREE SUM ENERGY OF GRAPH", Proceedings of the Jangjeon Mathematical Society, 2022, 25(2), pp. 205–210.
- Reddy, P.S.K., Hemavathi, P.S., "Generalization of bipartite graphs", Journal of Discrete Mathematical Sciences and Cryptography, 2020, 23(3), pp. 787–793
- Shanthakumari, Y., Reddy, P.S.K., Lokesh, V., Hemavathi, P.S., "Topological aspects of boron triangular nanotube and boron- α nanotube-ii", South East Asian Journal of Mathematics and Mathematical Sciences, 2020, 16(3), pp. 145–156
- Hemavathi, P.S., Lokesh, V., Manjunath, M., Reddy, P.S.K., Shruti, R., "Topological aspects boron triangular nanotube and boron- α nanotube#", Vladikavkaz Mathematical Journal, 2020, 22(1), pp. 66–77
- Rajendra, R., Siva Kota Reddy, P., Mangala Gowramma, H., Hemavathi, P.S., "A note on prime graph of a finite ring", Proceedings of the Jangjeon Mathematical Society, 2019, 22(3), pp. 415–426
- Reddy, P.S.K., Misra, U.K., Hemavathi, P.S., "Neighborhood signed graphs and jump signed graphs", Advanced Studies in Contemporary Mathematics Kyungshang, 2014, 24(2), pp. 217–226

- MINIMUM BOUNDARY DOMINATING PARTITION ENERGY OF A CERTAIN GRAPH
Proceedings of the Jangjeon Mathematical Society 28 (2025), No. 2, pp. 189 – 195
- ON MINIMUM STRESS ENERGY OF GRAPHS J. Appl. Math. & Informatics
Vol. 43(2025), No. 2, pp. 543 - 557 <https://doi.org/10.14317/jami.2025.543>
- Total stress as a topological indices Proceedings of the Jangjeon Mathematical Society 28 (2025), No. 2, pp. 181 – 188
- Study on line graph of some graph operators of chemical structures via F and M1 indices J. Appl. Math. & Informatics Vol. 4x(2023), No. x, pp. xx – xx <https://doi.org/10.14317/jami.201x.xxx>

Conference Proceedings

NIL

Book Chapters

NIL

Books

NIL

Editorial

NIL

Reviewer of Journals

(Please give details in IEEE format)

Editor/ Reviewer of Journal

- International Journal of Discrete Mathematics.

Patents

NIL

Invited Lectures, talks and workshops

NIL