# Faculty Profile

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| Name : Dr Harsha A J<br>Designation : Assistant Professor<br>Department : Mathematics<br>**Contact Details**<br>E-mail : harshaaj@nie.ac.in<br>Phone : +91 9481582101/ +91 7619309481 |  |

**About me:**

Dr. Harsha A J is an Assistant Professor of Mathematics at The National Institute of Engineering (NIE), Mysuru, with more than 14 years of teaching and academic experience. He obtained his Ph.D. from Visvesvaraya Technological University with research in Algebra–Lattice Theory, Formal Concept Analysis, and Graph Theory. He is a UGC-certified Master Trainer in Indian Knowledge Systems (IKS) and an IUCEE International Engineering Educator (Distinction). His research contributions include several peer-reviewed publications in reputed international journals and presentations at national and international conferences. Dr. Harsha has received financial support from the Karnataka Science and Technology Academy for academic programs and has guided postgraduate research projects. He actively conducts invited lectures, faculty development programs, and workshops on mathematics, educational technologies, and IKS across universities in India. He is life time member of the Kannada Saahitya Parishat, Indian Mathematical Society, contributing to research, teaching innovation, and academic capacity building.

**Qualification:**

B.Sc. (Mangalore Univ.), M.Sc (Mangalore Univ.), Ph.D. (VTU, Belagavi)

**Courses Taught:**

**UG Courses:**
Calculus
Linear Algebra
Numerical Methods
Probability and Statistics

**PG Courses:**
Linear Algebra
Discrete Mathematics

**Publications:**

**Journal Publication:**

- H S Ramananda, **A J Harsha**; Embedding of Concept Lattice Into its mixed Concept Lattice, Advances in Mathematics: Scientific Journal 9 (2020), no.7, 4389-4396. https://doi.org/10.37418/amsj.9.7.9

- **Harsha A.J**, Ramananda H.S; A Framework for student's result analysis using Formal Concept Analysis, Journal of Critical Reviews, 2020-7(19):7649-7662. doi:10.31838/jcr.07.19.871

- Ramananda, H.S., **Harsha, A.J**. & Shabnam, S. Relation Between Graph of a Lattice with Respect to its Ideals and Corresponding Adjacency Matrix. Int. J. Appl. Comput. Math 8, 199 (2022). https://doi.org/10.1007/s40819-022-01414-1

- Salma Shabnam, Ramananda HS, **Harsha AJ**; PROPERTIES OF THE FORMAL CONTEXT OF ORTHOMODULAR LATTICES, Advances in Mathematics: Scientific Journal 11 (2022), no.10, 915-924. https://doi.org/10.37418/amsj.11.10.8

- Hareesh B, **Harsha A J** & Murari B K: An efficient user interface design for LMS application using graph based approaches, Integrated Research Journal of Management Science and Innovation, Vol 10, Issue 1 ( 2023), DOI: HTTPS://DOI.ORG/10.32804/IRJMSI

- **A. J. Harsha**, H. S. Ramananda and S. Shabnam. Representation of a lattice by a graph with respect to an ideal and its characterization, Proc. Jangjeon Math. Soc. Vol. 27 (2024), No. 4, 585-592 (DOI:http://dx.doi.org/10.17777/pjms2024.27.4.585)

- **Harsha A J**, Ramananda H S; MATLAB: A game changer in Mathematical Education, Studies in Science of Science, Vol 48, No 09 (2025), pp 37-45. DOI: https://doi.org/10.5281/zenodo.17104432

**Other achievements:**
- UGC Certified Master Trainer on Indian Knowledge System (IKS).
- Indo Universal Collaboration of Engineering education (IUCEE) certified Engineering Educator.

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