

+919535346577

naguharitsa96@gmail.com



Dr. NAGALAKSHMI A R

OBJECTIVE To pursue a challenging career with dedication, hard work and I want my efficiency to make a considerable difference to the institution and help in their consequent success and serve my duties that will discover the potential in me.

HARD SKILLS SOFTWARE:

MS Office (Advanced): Proficient in Word, Excel and PowerPoint.

Tally (Intermediate): Experience with accounting masters, inventory management, and reporting.

PROGRAMMING LANGUAGES:

C (Advanced): Strong understanding of data structures, algorithms, and object-oriented programming concepts.

Python (Intermediate): Experience with scripting, data analysis, and machine learning libraries.

TECHNICAL SKILLS:

LaTeX (Intermediate): Ability to create formatted documents and equations.

MATLAB (Intermediate): Basic knowledge of numerical computing and data visualization.

SOFT SKILLS Problem solving, Planning, Management, Analyzing quality, Optimistic, Team work, Good Communication Skills.

ACADEMIC **Doctor of Philosophy (Ph. D.) in Mathematics**

RECORDS **University:** Visvesvaraya Technological University, Belagavi

Research Center: Malnad College of Engineering, Hassan

Title of the Thesis: A Study on Spectral Graph Theory and Graph Labeling

Month and Year of Award: July 2025

Master of Science (M. Sc.) in Mathematics with First Class

University: University of Mysore

College: JSS College of Arts, Commerce and Science, Mysore.

Month and Year of Award: July 2019

Bachelor of Science (B. Sc.) in Physics, Mathematics and Chemistry with First Class

University: Kuvempu University

College: MES Degree College for Women, K.M Road Chikkamagaluru.

Month and Year of Award:

Higher Secondary Education (PUC) in Science with Distinction

College: Sri Sai Angels PU college, Chikkamagaluru.

**RESEARCH
INTEREST**

Algebraic Graph Theory, Chemical Graph Theory and Graph Labeling

**RESEARCH
EXPERIENCE**

Full Time Research Scholar in the Department of Mathematics, Malnad College of Engineering, Hassan, from 2021 to 2025

**TEACHING
EXPERIENCE**

Guest Faculty in the Department of Mathematics, Adichunchanagiri Institute of Technology, Chikkamagaluru from June 2023 – April 2024

**SUBJECT
TAUGHT**

Engineering Mathematics and Python Lab

PUBLICATION

Shwetha H, Shanmukha B, Shrikanth A S and **Nagalakshmi A R** (2021). On 1-edge Balance Index Set of $C_n \times P_4$, DSC and RC. *Malaya Journal of Matematik*, 9. 204-207.

Vinutha S V, Shrikanth A S and **Nagalakshmi A R** (2022). Cordial Labelling of Molecular Structures and Labelled Topological Indices of Molecular Graphs: A QSPR Model, 4, 1087-1107.

Nagalakshmi A R, Shrikanth A S, Kalavathi G K, Sreekeshava K S, (2024) The Degree Energy of a Graph. *Mathematics*, 12, 2699.

Nagalakshmi A R, Shrikanth A S, Kalavathi G K (2024) The Cordial Energy of some Graphs. PROYECCIONES (ANTOFAGASTA). 43. 1455-1471. 10.22199/ISSN.0717-6279-6403.

Nagalakshmi A R, Shrikanth A S, Kalavathi G K, Laplacian Degree Energy, *Discrete Mathematical Letters*, Communicated.

CONFERENCE *Geometric Function Theory and Its Applications*, Yuvaraja's College, Mysore, 29th and 30th January 2018.

Current Trends in Mathematics, JSS College of Arts, Commerce and Science, Mysore. 21th and 22th February 2019.

Programming on Python, Malnad College of Engineering, Hassan. 10th December 2022.

Pre-Conference Instructional Workshop on Spectral Graph Theory, Vidyavardhaka College of Engineering, Mysore. 4th to 7th June 2023.

International conference on Discrete Mathematics and Graph Theory Day, Vidyavardhaka College of Engineering, Mysore. Presented a paper entitled "3-Constrained Total Labeling of Some Graphs". 8th to 10th June 2023.

DECLARATION I confirm that information provided above by me is true to the best of my knowledge and belief