

FACULTY PROFILE



NAME : **Dr. Ashwini Yalnaik**
Designation : Assistant Professor
Department : Department of Mathematics
Qualification : M. Sc., Ph. D
Areas of Specialization : Graph Theory
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Vision

Mathematics is a continuous prayer to understand rather than to keep by hearting the formulae's. Knowing mathematics can be intellectually satisfying and empowering. The underpinnings of everyday life are increasingly mathematical and technological. I share the vision of developing our intellectually vigorous community of students, engaging in research, teaching, and learning that advance knowledge in diverse areas of mathematics and support contemporary progress in science.

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	Ph. D.	Graph Theory guide: Prof. H. S. Ramane	Karnatak University Dharwad	Feb 2018
2	PG	M. Sc. Mathematics Graph theory	Karnatak University Dharwad	Aug 2013
3	UG	B. Sc [P. C. M.]	Karnatak University Dharwad	June 2011

Professional Details (Academic/Research Experience)

Sl. No.	Designation	Institution/University	UG/PG	From	To
1	Junior Research Fellow	Karnatak University Dharwad	Ph. D	2013	2015
2	Senior Research Fellow	Karnatak University Dharwad	Ph. D	2015	2018
3	Guest lecturer	Govt. first grade College Dharwad	UG	June 2018	April 2019

Areas of Research Interest:

1.	Graph Spectra
2.	Graph Topological Indices
3.	Graph Algorithms and Application to Chemistry and Physics

Research Publications:	
a) International Journals	
1.	<p>“Status connectivity indices and co-indices of graph and its computation to some distance-balanced graphs” Harishchandra S. Ramane, Ashwini S. Yalnaik, Reza Sharafdini AKCE International Journal of Graphs and Combinatorics (Elsevier) Sept- 2018 (Impact Factor:0.67)</p>
2.	<p>“Status connectivity indices of graphs and its applications to the boiling point of benzenoid hydrocarbons” Harishchandra S. Ramane, Ashwini S. Yalnaik Journal of Applied Mathematics and Computing, (Springer)(2016) DOI 10.1007/s12190-016-1052-5. (Impact Factor:0.87)</p>
3.	<p>“Reciprocal complementary distance spectra and reciprocal complementary distance energy of line graphs of regular graphs” Harishchandra S. Ramane, Ashwini S. Yalnaik Electronic Journal of Graph Theory and Applications, 3(2) (2015),228-236. (Impact Factor:0.32)</p>
4.	<p>“Harmonic status Index of graphs” Harishchandra S. Ramane, B. Basavanagoud, Ashwini S. Yalnaik Bulletin of Mathematical Sciences and Applications, Vol. 17(2016), pp 24-32. [ISSN: 2278-9634]. (Impact Factor:1.33)</p>
5.	<p>“Hamming index of some thorn graphs with respect to adjacency matrix” Harishchandra S. Ramane, G. A. Gudodagi, Ashwini S. Yalnaik Scientia Magna, Vol. 11 (2016), No. 2, 97-104</p>
b) National Journals	
1.	<p>“Bounds for the Status Connectivity index of Line Graph” Harishchandra S. Ramane, Ashwini S. Yalnaik International Journal of Computational and Applied Mathematics, Vol.12,(3) (2017),pp.305-310.(Impact Factor: 0.863)</p>
2.	<p>“On Adraitic Indices and its application to some properties of alkanes ” Ishwar Baidari, Preeti Savant, Ashwini Yalnaik International Journal of mathematics and Application, 6(2-B)(2018), 173-181.</p>
3.	<p>“Hamming index generated by incidence matrix of some thorn graphs” Harishchandra S. Ramane, Ashwini S. Yalnaik, G. A. Gudodagi International Journal of Mathematical Archieves, 7(8), 2016, 7-12.</p>

Conference/ Workshops/Trainings attended/organized:

International/National Conferences:

1. 10th Annual conference of ADMA and Graph theory day held from 10th - 13th, June 2014, in Department of Mathematics and Basic Sciences, REVA Institute of Technology and Management, Bangalore -560064
2. Presented a paper entitled "*Hamming index generated by incidence matrix for some G^{k+} graphs*" at National conference on Recent Trends in Graph Theory and its Application (NCRTGTA-2015) held at Mangalore University, Mangalagangothri during 5th to 6th Feb 2015.
3. Presented a paper entitled "*Reciprocal complementary Distance Spectra and Reciprocal complementary Distance Energy of Line Graphs of Regular graphs*" 11th Annual Conference of ADMA & Graph Theory Day-XI held at B. S. Abdur Rehman University, Vandalur, Chennai during 10th to 12th June 2015.
4. Presented a paper entitled "*Status like Zagreb Index*" at International Conference on Discrete Mathematics (ICDM - 2016) and Graph Theory Day -XII held at Siddaganga Institute of Technology, Tumkuru held on 9-11, June 2016.
5. Presented a paper entitled "*Harmonic Status Index of Graphs*" at National Conference on Geometry, Topology and their Applications (NCGTA-2016) held on 03-04, August 2016 at Department of Mathematics, Karnatak University Dharwad.
6. Presented a paper entitled "*Computation Of Status Connectivity Indices And Co-Indices Of Intersection Graph, Hypercube, Kneser Graph And Achiral Polyhex Nanotorus*" at National Conference on Analysis and Its Applications, held on 15 - 16, March 2017 at Karnatak University, Dharwad.
7. Presented a paper entitled "*Status Hosoya Polynomial of Some Transmission Regular Graphs*" at National conference on Recent Advances in Mathematical sciences and Application, held on 1-2 December 2017, at Tumkur University, Tumkur.
8. Attended International Conference on Present Scenario of Mathematical Sciences(ICPSMS-2020) from 12th Sept 2020 to 13th Sept 2020 at Karnatak University.
9. Attended International Conference on Recent Trends in Graph Theory (ICRTGT-2020) 27th July 2020 to 29th July 2020 at Karnatak University.

Workshops/Seminars/Symposium Attended:

1. Workshop on "Algorithms" held at Karnatak University, Dharwad during 18 - 20 september 2014.
2. ADMA pre-conference workshop on fuzzy graphs held on 7th June 2015 to 9th June 2015 at B. S. Abdur Rahman University, Vandalur, Chennai.
3. Recent Trends in Domination in Graphs: "Algorithms, Complexity and Applications" held from 15th June 2020 to 19th June 2020 at National Institute of Technology Warangal.

Awards	
1.	Received Best Research publication Award in Science 2017 from Karnatak University Dharwad for “ <i>Computation Of Status Connectivity Indices And Co-Indices Of Intersection Graph, Hypercube, Kneser Graph And Achiral Polyhex Nanotorus</i> ”
2.	Reviewed papers at 2nd International Conference on “ <i>Sustainable Urban Development, Resource Conservation and food Security</i> ” organized by Beary’s Institute of Technology, Mangalore on 6th to 12th August 2020.

Special Lecture	
1.	Presented special Lecture on “Applications of Graph Theory” on Occasion of Ramanujan Day on 21 st Dec 2019 at Government First Grade College Shikaripura.

Orientation	
1.	Attended One month (online) Faculty Orientation Programme from 26 th June, 2020 to 24 th July, 2020 conducted by Teaching and learning Centre, Ramanujan College, University of Delhi.

Personal Details		
Gender	Female	
Date of Birth	18/11/1990	
Contact details	Address for Communication	Permanent address
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