



Dr. ANAND P. BARANGI

Assistant Professor,
Department of Mathematics (H&S)
Indian Institute of Information Technology Dharwad

Research Interest

- Graph Theory
- Spectral Graph Theory
- Network related problems

Teaching Experience

- 01-01-2021 to present: Assistant Professor at Department of Mathematics (H&S) IIIT Dharwad.
- 01-10-2020 to 31-12-2020: Assistant Professor in Mathematics at Tungal School of Basic and Applied sciences, Jamkhandi Bagalkot, Karnataka - UG level.
- 24-08-2015 to 20-12-2016: Lecturer at BLDEA's Com, BHS Arts and TGP Science College, Jamkhandi, Bagalkot, Karnataka - PG and UG Level.

Education

Ph.D. in Mathematics (Karnatak University, Dharwad)		Topic: Graph Theory	
Master of Science M.Sc.	Karnatak University, Dharwad	2015	86.1%
Bachelor of Science B.Sc.	KLE's G.H.College Haveri	2013	84.31%

Published Research Papers -10 (01 N+ 9 IN)

- B. Basavanagoud, **Anand P. Barangi** and I. N. Cangul, Hub number of some wheel related graphs, Adv. Stud. Contemp. Math. (Kyungshang), 30(3) (2020), 325–334. (South Korea) [ISSN: 2508-7908]. (UGC-CARE, Scopus).
- B. Basavanagoud, **Anand P. Barangi**, Chinmayi indices of some graph operations, Jordon J. Math. Stat., 13(2) (2020), 169–187. (Jordon) [ISSN:2227-5487]. (UGC-CARE, Scopus).
- B. Basavanagoud, **Anand P. Barangi**, F-index and hyper Zagreb index of four tensor product of graphs and their complements, Discrete Math. Algorithms Appl., 11(3) (2019), Art. 1950039 (14 pages), (Singapore) [ISSN: 1793–8317]. (UGC-CARE, Scopus)
- B. Basavanagoud, **Anand P. Barangi** and Praveen Jakkannavar, M-polynomial of some graph operations and cycle related graphs, Iranian J. Math. Chem., 10(2) (2019), 127–150. (Iran) [ISSN: 2226–6489]. (UGC-CARE Group A)
- B. Basavanagoud, **Anand P. Barangi**, First neighbourhood Zagreb index of F-sums of graphs, Bull. Int. Math. Virtual Inst., 10(2) (2020), 325–337. (Banja Luka) (ISSN: 2303-4955).
- B. Basavanagoud, **Anand P. Barangi**, M-polynomial of some cactus chains and their topological indices, Open J. Discret. Appl. Math., 2(2) (2019), 59–67. (Pakistan) [ISSN: 2617–9687].

- B. Basavanagoud, Chitra E, Praveen Jakkannavar and **Anand P. Barangi**, Hosoya polynomial and Weiner index of generalized xyz-point-line transformation graphs $T^{xyz}(G)$, J. Int. Math. Virtual Inst., 9 (2019), 293–321. (Banja Luka) [ISSN: 2303–4947].
- B. Basavanagoud, **Anand P. Barangi**, Computing Zagreb polynomials of generalized xyz-point-line transformation $T^{xyz}(G)$ with $z = -$, Int. J. Math. Combin., 2 (2019), 1–14. (China) [ISSN:1937–1055].
- B. Basavanagoud, **Anand P. Barangi**, Degree sum polynomial obtained by some graph operations, J. Comp. Math. Sci., 9(8) (2018), 977–1000, (INDIA) [ISSN: 2319-8133]. (UGC Journal No. 44720)
- B. Basavanagoud, **Anand P. Barangi** and Sunilkumar M. Hosamani, First neighbourhood Zagreb index of some nanostructures, Proc. Inst. Appl. Math. 7(2) (2018), 178–193. (Azerbaijan) [ISSN: 2225–0530].

Conference/Seminar Attended and Presented

- Participated in the **Webinar & Technical Session On Mathematical Modeling and the Pandemic** Organised by Bharata Ganita Parisad & Department Of Mathematics & Astronomy, University of Lucknow, Lucknow during 12-13 December, 2020.
- Participated in the **International Conference on Recent Trends in Graph Theory (ICRTGT-2020)** organized by Department of Mathematics, Karnatak University, Dharwad, India during July 27-29, 2020.
- Attended and presented a paper “First Neighbourhood Zagreb Index of F-Sums Of Graphs” in the **National conference on Analysis and Applications** organized by Karnatak University Dharwad, Karnataka, India on 01-02 March 2019.
- Attended and presented a paper “F-index and hyper Zagreb index of four new tensor products of graphs and their complements” in the **International Conference on Emerging Trends in Graph Theory** held at the Department of Mathematics, CHRIST university, Bengaluru, India, during 27-28 February, 2019.
- Attended and presented a paper “M-Polynomial and topological indices of some Nanostructures” in the **International Conference on Discrete Mathematics and its Applications to Network Science** held at the Department of Mathematics, Birla Institute of Technology and Science Pilani, K K Birla Gao Campus, India, during 07-10 July, 2018.
- Attended and presented a paper “Computing Zagreb polynomial of generalized xyz-point-line transformation graphs T^{xyz} with $z = -$ ” in the **National conference on Analysis and Applications** organized by Karnatak University Dharwad, Karnataka, India on 09-10 March 2018.
- Participated in the one-day **state level workshop on “Society, Research and Development”** organized by Karnatak University Research Scholars Association, Dharwad held on 19th February, 2018.
- Participated in **Pedagogical Training for Mathematics Teachers-2016 (PTMT-2016)** held at Sri Venkateswara University, Tirupati, during 10-16 November, 2016.

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