P.E.S. College of Engineering, Mandya - 571401
(An Autonomous Institution, affiliated to VTU, Belagavi)

Faculty Profile

General

Name	Dr. Nayaka S. R.
Designation	Assistant Professor
Department & Affiliated Institution	Department of Mathematics, P.E.S. College of Engineering, Mandya.
Research Area	Domination Theory (Graph Theory)
Contact Number	+91-96116 00098
Email ID	nayaka.abhi11@gmail.com

Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	PETRF, PESCE, Mandya	University of Mysore, Mysuru	2018	-	Awarded
N. E. T.			2014	-	Qualified
S. E. T.			2013	-	Qualified
M. Sc.,	Department of Studies in Mathematics	University of Mysore, Mysuru	2012	86	Distinction
B. Sc.,	J. S. S. College of Arts, Commerce & Science, Mysuru.	University of Mysore	2010	74	First Class

Professional Experience

Organization and Department	Designation	Period	Total Experience
P.E.S. PG Centre, Mandya.	Assistant Professor	16-08-2012 to 20-05-2014	02 Years
P.E.S. College of Engineering, Mandya	Assistant Professor	14-09-2016– till date	04 Years

Reports on Academic and Research Activities

Academic Activities

Teaching Records (Details of courses taught)	Algebra, Real Analysis, Complex Analysis, Linear Algebra, Topology-I, Topology-II (M. Sc.) and Engineering Mathematics – I, II, III and IV.

Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.	M.Phil
Awarded	Nil	Nil	Nil
Pursuing	Nil	Nil	Nil

Sponsored Research Projects   (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
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Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	05	12
Conferences/Symposia	06	04

Other Important Responsibilities Held in the College

1. Member BoS and BoE
2. Coordinator for NBA Criteria-9
3. Executive committee member of ISTE
4. Coordinator for LMS

List of Publications

Year: 2015

1. Murthy K.B., Nayaka S. R., (2015), The Independent Transversal Paired Domination in Graphs, *IJPRET*, Volume 4 (5), 13-27, ISSN: 2319-507X.

Year: 2016

2. Puttaswamy, Nayaka S. R. (2016) "The Paired Dominating Energy of a Graph", *International Journal of Applied Mathematics and its Applications,* Volume 4, Issue 2-A, 59-69. ISSN: 2347-1557. Available Online: http://ijmaa.in/.

3. Mohammed Ali Alatif, Puttaswamy, Nayaka S.R.(2016) "Connected Boundary Domination in Graphs", *International Journal of Applied Mathematics and its Applications,* Volume 4, Issue 1-A, 33-38. ISSN: 2347-1557.

4. Sharada B. B. Ashwini and Nayaka S.R.,(2016) "Perfect domination edge subdivision critical and stable Graphs", *International Journal of Applied Mathematics and its Applications*, Volume 4, Issue 2-D, 7-11. ISSN: 2347-1557. Available Online: http://ijmaa.in/

5. Mohammed Ali Alatif, Puttaswamy, Nayaka S.R., (2016) "Boundary Domination in Total Graphs", *Gen. Math. Notes*, Vol. 32, No. 1, pp 12-20, ISSN 2219-7184.

6. Mohammed Ali Alatif, Puttaswamy, Nayaka S.R., (2016) "Boundary Domination of Line and Middle Graph of Wheel Families", *International Journal of Computer Applications* (0975 - 8887) Volume 134 - No.5.

7. Mohammed Ali Alatif, Puttaswamy, Nayaka S. R., (2016) "Connected Boundary Edge Domination in Graphs," *Journal of Mathematical treatments and optimization,* 4, 1, 1-10.

8. Puttaswamy, Nayaka S.R., (2016) "Introduction to Paired Domination Polynomial of a Graph", *Proceedings of International Conference in Mathematical Analysis and Graph Theory*, San Francisco, USA.

Year: 2017

9. B. Chaluvaraju, Puttaswamy, N. Manjunath and S.R. Nayaka, (2017) "The Co-Connected Domination Polynomial of a Graph", *Advances and Applications in Discrete Mathematics,* Volume 18, Number 1, Pages 57-70 ISSN: 0974-1658.

10. Nayaka S. R. Puttaswamy and Purushothama S., (2017) "Independent Transversal Restrained Domination in Graphs", *International Journal of Pure and Applied Mathematics*, Volume 113 No. 11, 170-178 ISSN: 1311-8080.

11. Nayaka S. R. Puttaswamy and Purushothama S., (2017) "Complementary Pendant Domination in Graphs", *International Journal of Pure and Applied Mathematics*, Volume 113 No. 11, 179-187, ISSN: 1311-8080.

12. Nayaka S. R. Puttaswamy and Purushothama S., (2017) "Pendant Domination in Some Generalised Graphs", *International Journal of Scientific Engineering and Science*, Volume 1, Issue 7, pp. 13-15, ISSN (Online): 2456-7361.

13. Nayaka S. R. Puttaswamy and Purushothama S., "The Open Neighbourhood number of a Graph", International Journal of Scientific Engineering and Science Volume 1, Issue 7, pp. 13-15, 2017. ISSN (Online): 2456-7361

14. Nayaka S. R. Puttaswamy and Purushothama S., (2017) "Total Transversal Domination in Graphs", International Journal of Pure and Applied Mathematics, Volume 117 No. 1, 149-154, ISSN: 1311-8080.

15. Nayaka S. R. Puttaswamy and Purushothama S., (2017) "Pendant Domination Polynomial of a Graph", International Journal of Pure and Applied Mathematics, Volume 117 No. 11, 193-199, ISSN: 1311-8080.

Year: 2018

16. Nayaka S. R., Anwar Alwardi and Puttaswamy, (2018) "Transversal Domination in Graphs" Gulf journal of mathematics, Vol 6, Issue (2) 41-49.

17. Nayaka S. R. Puttaswamy and Purushothama S, (2018) "Upper Pendant Domination in Graphs", Global Journal of Pure and Applied Mathematics, Volume 14, Number 6, pp. 873-883. ISSN 0973-1768.

18. Purushothama S, Puttaswamy and Nayaka S. R., (2018) "Bi-Pendant Domination in Graphs", Global Journal of Pure and Applied Mathematics, Volume 14, Number 7, pp. 919-925. ISSN 0973-1768.

19. Sharada B. Nayaka S. R. and Puttaswamy, (2018) "On the Independent Domination Edge Lift Stable Trees" Global Journal of Pure and Applied Mathematics, Volume 13, Number 7, pp. 937-942. ISSN 0973-1768.

Year: 2019

20. Purushothama S, Puttaswamy and Nayaka S.R, (2019) "Extended Results in Pendant Domination Polynomial of a Graph", Special Issue: conference proceeding of ICCSPAM-2019, page 69-72.

21. Purushothama S, Puttaswamy and Nayaka S.R, (2019) "Minimum Pendant Dominating Energy of a Graph", Special Issue: conference proceeding of ICCSPAM-2019, page 101-109.

Year: 2020

22. Nayaka S.R., Anwar Alwardi and Puttaswamy, (2020) "Transversal Total Domination in Graphs", JCMCC 112, pp. 231-240.

23. Nayaka S R, Puttaswamy and Purushothama S, (2020) "Pendant Domination in Graphs", JCMCC, 112, pp.219-229.

24. Purushothama S, Puttaswamy and Nayaka S R, (2020) "Pendant Domination in Double Graphs", Proceedings of the Jangjeon Mathematical Society Volume 23, No. 2, pp. 223 – 230.