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

Faculty Profile

General

Name	Dr. Puttaswamy
Designation,	Professor
Department & Affiliated Institution	Department of Mathematics PES College of Engineering, Mandya-571401.Karnataka,India
Research Area	Graph Theory
Contact Number	+91 9449696905
Email ID	prof.puttaswamy@gmail.com

Academic Profile

Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D.	Department of Studies in Mathematics, MGM, Mysuru	University of Mysore, Mysuru.	2006	-	-
M. Sc.,	Department of Studies in Mathematics, MGM, Mysuru	University of Mysore, Mysuru.	2001	55.7	II - Class
B. Sc.,	Yuvaraja's College, Mysuru	University of Mysore, Mysuru.	1994	42.5	III - Class

Professional Experience

Organization and Department	Designation	Period	Total Experience
S.S. Margol college, Shahabad, Gulbarga.	Lecturer	10-6-2003 to 05-01-2008	4 Years 6 Months
Govt. college for boy's Chintamani, Chickaballapur District.	Lecturer	06-01-2008 to 11-04-2008	3 Months
P.E.S. College of Engineering, Mandya	Assistant Professor	12-04-2008 to 11-04-2011	3 Years
	Associate Professor	12-04-2011 to 11-04-2014	3 Years
	Professor	12-04-2014 to till date	9 Years 6 Months

Reports on Academic and Research Activities

Academic Activities

Teaching Records (Details of courses taught)	<u>Undergraduate:</u> Engineering Mathematics-I, II, III and IV Additional Mathematics-I and II

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

Degree	Ph. D.	M.Sc., Engg.	M.Phil
Awarded	06	Nil	09
Pursuing	09	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
Nil	Nil	Nil	Nil

Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	03	65
Conferences/Symposia	05	03

Journal Reviewer

National –	International - 03

Other Important Responsibilities Held in the College

1. Head of the department of Mathematics 2. Coordinator for ISTE	3. BOS and BOE Chairman

LIST OF PUBLICATIONS

International / National Journals.
2023
1. **S. Raju, Puttaswamy and S.R.Nayaka (2023)** On the second domination hyper index of graph and some graph operations Advanced and Applications in Discrete Mathematics vol… Number…pages ISSN: 0974-1658

2. **S. Raju, Puttaswamy and Naraka S.R (2023)** On the second domination hyper polynomial of graphs, Int.J.Math.And Appl. 11(1) (20203),113-124,ISSN :2347-1557

3. **S. Raju, Puttaswamy and Nayaka S.R (2023)** ABC,GA and AG Co-even domination indices of graph Int.J.Math.And Appl.11 (1) (2023), 75-84,ISSN :2347-1557.

4. **Raju S, Puttaswamy and Ammar Alsinai (2023)** Different types of domination topological indices of some chemical drugs, European Chemical Bulletin (Accepted) ISSN 2063-5346.

5. **S.Purushothama,Puttaswamy and S.R.Nayaka (2023)** Pitchfork Pendent domination in graphs, Elsevier Materials today ; Proceedings, Accepted

6. **Puttaswamy and Poojitha.R (2023)** On Laplacian of Skew-Quotient of Randic and Sum-Connectivity energy of Digraph, Int.J.Math.Combin. Vol.(1) (2023),98-110.

7. **Ramesha M S, Puttaswamy,Ammar A and Murat cancan(2023) Certa in topological idices 0f chemical inter connection Networks, Eur.Chem.Bull. 12 (s3), 3280-3281.**

8. **Nanjundaswamy M, Puttaswamy,Ammar, A and Murat cancan, (2023) Degree based Tooloical Desriptorsof some derived graphs by Using a Novel a novel polyonomial EUR.chem.Bull. 12 (s3) ,3280-3287.**

2022

1. **Puttaswamy and Bhavya C A. (2022) On Laplacian of quotient of Randic and sum- connectivity energy of graphs, International Journal of Applied Graph Theory, 6(1),**

2. **Puttaswamy and Poojitha R. (2022) On product of Randic and sum-connectivity energy of graphs,Int.J.of Applied Graph Theory, 6(1),2022, 15-28.**

2021.
1. **Bhavya C.A and Puttaswamy (2021) " On Skew-Sum Eccentricity Energy of Digraphs"** International J.Math.Combin.Vol.3(2021) 49-61
2.**R.Poojitha and Puttaswamy (2021) "On Laplacian of Product of Randic and Sum-Connectivity Energy of Graphs"** International J.Math.Combin.Vol.3 (2021), 35-48.

2020
1. **Puttaswamy, R.Poojitha (2020) "On Skew-Quotient of Randic' and Sum-Connectivity Energy of Digraphs "**, Math.Combin.Book Ser. Vol.3, 69-82.
2. **Puttaswamy, Bhavya C. A. (2020) "On Quotient of Randic' and Sum-Connectivity Energy of Graphs"**, Math.Combin.Book Ser. Vol.2, 88-100.
3. **Purushothama S, Puttaswamy and Nayaka S R** (2020).**Pendant Domination in double Graph,** Proceedings of Jangjeon Mathematical Society (PJMS), Volume 23 (2), (April).

4. **Nayaka S R ,Puttaswamy and Purushothama S, (**2020)**Pendant Domination in Graphs,** Journal of Combinatorial Mathematics and Combinatorial Computing, pp. 2019-230.Vol. 112,Issue.1 pages 219-229.

5. **Nayaka S R , Anwer Alwardi and Puttaswamy, (**2020)**Transversal Total Domination in Graphs,** Journal of Combinatorial Mathematics and Combinatorial Computing, pp. 231-240.Vol. 112,Issue.1 pages 231-240.

6. **Sharada B, Nayaka S R and Puttaswamy**, **Edge lifting and independent domination in graphs**, in Communication.

7. **Puttaswamy,M N Prakasha and Nayaka S R,Isolated Domination Polynomial of a Graph,Int.J.Math.And Appl.,8 (4) (2020),69-73 ISSN: 2347-1557.**

2019

1. **Purushothama S, Puttaswamy and Nayaka S R, (2019) Extended results in Pendant Domination Polynomial of a Graph,** AIJRSTEM, ISSN (print): 2328-3491, ISSN (on line): 2328-3580, 2019, ISSN (CD-ROM): 2328-3629.

2. **Purushothama S, Puttaswamy and Nayaka S R, (2019) Minimum Pendant Dominating Energy of Graphs, AIJRSTEM**, ISSN (Print): 2328-3491, ISSN (Online): 2328-3580, ISSN (CD-ROM): 2328-3629.

3. **Purushothama S, Puttaswamy and Nayaka S R, Inverse Complementary Pendant Domination in Graphs,** In Communication,

2018

1. **Sharada B, Nayaka S R and Puttaswamy (2020) On the Independent Domination Edge lift stable Trees**, Global Journal of Pure and Applied Mathematics,ISSN 0973-1768, Vol.13, No.7, (2018) PP, 937-942.

2. **Nayaka S R, Puttaswamy and Purushothama S (2018)Upper Pendant Domination in Graphs,** Global Journal of Pure and Applied mathematics, Volume 14, No. 6, 873-883.

3. **Nayaka S R , Puttaswamy and Purushothama.S (2018)Bi-Pendant Domination in graphs,** Global Journal of Pure and Applied Mathematics, volume 14,No.7, 919-925.

4. **Anwar Alwardi, Nayaka S R and Puttaswamy, (2018), Transversal Domination in Graphs**, Gulf Journal of Mathematics, Vol.6, No.2, ISSN; 2309-4966.

5. **Nayaka S R,Puttaswamy and K N Prakasha, (2018**), **Transversal Domination in Double Graphs**, Vladvkarz Mathematical Journal ,Vol. 20, Issue 4, P.59-66.

2017

1 **Nayaka S R, Puttaswamy and Purushothama S (2017) Complementary Pendant Domination in Graphs**, IJPAM, Volume113 No. 11, 179-187.

2 **Nayaka S R, Puttaswamy and Purushothama S (2017) Independent Transversal Restrained Domination in Graphs**, IJPAM, Volume 113, No. 11, 170-178.

3 **Nayaka S R, Puttaswamy and Purushothama S (2017) Pendant Domination in Some Generalized Graphs,** International Journal of Scientific Engineering and Science, Volume 1, Issue 7, pp. 13-15.

4 **Nayaka S R, Puttaswamy and Purushothama S (2017) Pendant Domination polynomial of a Graph,** IJPAM, Volume 117, No. 11 (2017), 193-199.

5 **Dr.B.Chaluvaraju, Puttaswamy, Manjunath N and Nayaka S R (2017) The Co- Connected Domination Polynomial of a Graph,** Advanced and Application in Discrete Mathematics, Volume 18, Issue 1, Pages57-70.

6 **Nayaka S R, Puttaswamy and Purushothama S (2017), The Open Neighborhood   Number of a Graph**, International journal of Scientific Engineering and Science, Volume 1, Issue 6, pp. 52-54.

7 **Nayaka S R, Puttaswamy and Purushothama S (2017),Total Transversal Domination in Graphs,** IJPAM, Vol.117 No.12, 149-154,ISSN ; 1311-8080 (Printed version).

 2016

1. **Mohammed Alatif (2016) Laplacian Minimum Boundary Dominating Energy of a Graphs**, Asia Pacific Journal of Mathematics, 3 (2) (2016), 99-113.
2. **K.B. Murthy and Puttaswamy (2015),The End Equitable Domination in Graph,** Journal of Computer and Mathematical Sciences, vol.6(10) 552-563 October 2015, ISSN 0976-5727 (print),ISSN 2319-8133 (online).
3. **K.B. Murthy, Puttaswamy and A M Naji, (2015), The Maximum Independent Vertex Energy of a Graph,** Intl. J. of Mathematics And its Applications, Volume 3, Issue 4.F 63-71 ISSN-2347-1557. Available on line :http://ijmaa.in/
4. **K.B. Murthy and Puttaswamy, (2016), On the independent neighborhood polynomial of graphs**, Indian Streams Research Journal, (International Recognized multidisciplinary Research Journal), ISSN 2230-7850, Vol -5, Issue -12,
5. **Mohammed Alatif and Puttaswamy, (2016), Connected Boundary Domination in Graphs**, International Journal of Mathematics and its Applications, Volume 4, Issue 1-A (2016), 33-38. ISSN: 2347-1557.
6. **Mohammed Alatif ,Puttaswamy and Nayaka S R, Boundary Domination of Line and Middle Graph of Wheel Families,** International Journal of Computer Applications (0975-8887) Volume 134-No.5, January 2016.(With Mohammed Alatif & Nayaka S R)'
7. **Mohammed Alatif and Puttaswamy, (**2016), Boundary domination in Middle Graphs, IOSR Journal of Mathematics, 12(2).
8. **K.B. Murthy and Puttaswamy, (2016), The Minimum Global Dominating Energy of a Graph, Golden Research Thoughts**, ISSN 2231-5063, Volume-5, Issue-10, April 2016.
9. **A C Dinesha and Puttaswamy, (2016), On the End Equitable Edge Domination of Graphs**, Indian Journal of Applied Research**, Volume, 6 Issue: 4, April 2016, ISSN - 2249-555X.
10. **A C Dinesha and Puttaswamy, (2016) Monopoly Size Of Some Wheel Related Graphs**, Indian Streams Research Journal, **Volume – 6, Issue – 1.**
11. **Puttaswamy and Nayaka S R, (2016), The minimum Paired Dominating Energy of a Graph**, International Journal of Mathematics And its Applications, Volume 4, Issue 2-A 59-69. ISSN: 2347-1557.
12. **Nayaka S R and Puttaswamy (2016), Independent Transversal Restrained Domination in Graphs,** Proceedings of the National Conference on Scientific, Computational & Information Research Trends in Engineering (NCSCI-2016).
13. **Mohammed Alatif and Puttaswamy, (2016), The Minimum Boundary Dominating Energy of a Graph**, International Journal of Mathematics and its Applications, Volume 4, Issue 1-B (2016), 37-46. ISSN: 2347-1557.
14. **Mohammed Alatif, Puttaswamy and Nayaka S R, (2016), Boundary Domination in Total Graphs, Gen. Math. Notes**, Vol. 32, 1 January 2016, pp. 12-20, ISSN 2219-7184.(Mohammed Alatif & Nayaka S R)
15. **Puttaswamy, Anwar alwardi and Nayaka S R (2016), Introduction to Paired Domination Polynomial of a graph**, Proceedings of the International Conference on Mathematical Analysis and Graph Theory (ICMAGT-2016), *San franscico, USA* during September 26-27, 2016.
16. **Puttaswamy and Dinesha A C, (2016),** The Minimum Neighborhood Energy of a Graph, (International online multidisciplinary Journal, Review of Research) ISSN 2249-894x, Impact factor ; 3.1402 (UIF)Vol-5, Issue-4, Jan-2016.

2015

1. **The Minimum Maximal Domination Energy Of A Graph,** Indian Journal of Mathematics and its Applications (IJMA) Volume 3, Issue 3-A (2015), 31–40.

2. **Puttaswamy and Mohammed Alatif, (2015)** Boundary Edge Domination in Graphs**,** Bulletin of The International Mathematical Virtual Institute (IMVI), ISSN (p) 2303-4874, ISSN (o) 2303-4955, Vol. 5, 197-204.

3. **K B Murthy and Puttaswamy, (2015),** On The Equitable Degree Polynomials of Graphs**,** International Journal of Pure and Applied Research in Engineering and Technology, 2015; Vol.4(3): 31-46.

4. **K B Murthy, Puttaswamy and A M Naji, (2015),** The Complimentary Dominating Energy Of a Graph, Indian Streams Research Journal (International Recognized Multidisciplinary Journal) July 2015, ISSN 2230-7850.

5. **A C Dinesha and Puttaswamy, (2015), The Equitable Domination Polynomial Of Graphs**, International Journal of Pure And Applied Research In Engineering And Technology, 2015; volume 4 (5): 62-75, ISSN: 2319-507x.

2012

1. **K B Murthy and Puttaswamy, (2015), The End Equitable domination in Graph**, Journal of Computer and Mathematical Sciences, Vol.6(10) ,552-563, October 2015. (An International Research Journal, www.compmath.journal.org), ISSN 0976-5727 (print) ISSN 2319-8133 (online). 2012.

2. **K B Murthy and Puttaswamy, (2012), The split equitable domination number of a graph**, Asian Journal of current engineering and MATHS (AJCEM).Vol. 1, No. 6. 2011.

2011

1. **Puttaswamy, (2011), On minimum efficient dominating sets in paths and cycles,** Ultra science Vol. 23(1) M, 17-20(2011).

2. **Puttaswamy, (2010**), T**he strong domatic numbers of factors of graphs**. Journal of Comp. & Math. Sci. Vol.1 (7), 921-924(2010).

2006

1. **Puttaswamy, and N D Soner (2006), Neighborhood In Subdivision Graphs,** Ultra science Vol. 18(2) M, 243-248(2006).

2005

1. **N D Soner and Puttaswamy, (2005), Vertex set Neighborhood and Strong Non Split Neighborhood Parameter in Graphs**, Ultra Science Vol.17 (1), 35-40.

2. **B Chaluvaraju and Puttaswamy, (2005**), **Double Split (Non Split) Domination in Graphs**. South East Asian J. Math. Math Sci. Vol.3 No.(2005) 83-94.

2004

1. **N D Soner and Puttaswamy (2004), Global Neighborhood in Graphs,** Acharya Nagarjuna International Journal of Maths and Inf. Tech, Vol.1. No.1 (2004)1-11.

2. **N D Soner and Puttaswamy, (2003), Maximal Total Domination in Graphs. The** Aligarh Bull. Of Maths Vol.22 No.1 (2003)29-33.

3. **N D Soner and Puttaswamy (2003), The Global Neighborhood in Graphs**. Proc. 14th Int. Conf. of the Jangeon Mathematical Society (PJMS), South Korea (2003).

2002

1. **N D Soner and Puttaswamy, (2002) The Block Neighborhood Number of Graph.** Far East Journal of Appl. Math. 9 (2) (2002), 127-135.

2. *N D Soner and Puttaswamy (2002), The Maximal Total Domination Number of a Graph*, Proceedings of National Conference on Graph Theory, Trichur, Kerala 2002,125-130.

2001

1. **N D Soner , Sridhara C and Puttaswamy, (2001**), **The efficient domatic number of a   graph**, Proceedings of National Conference on Challenges of the 21st century in Mathematics & its allied topics. Ed. BS Kiranagi,(2001)283-287.