

01. Personal details:

Name: **Dr. SONER NANDAPPA D.**

Designation: Professor of
Mathematics Address for
Correspondence:

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ndsoner@yahoo.co.in
Date of Birth: 07-10-1962
Place of Birth: Gulbarga
Sex: Male
Nationality:
Indian
Marital Status: Married



2. Educational Details:

Professional: 1. MSc. In Mathematics (1987, Gulbarga University)
2. M.Phil . In Mathematics (1989, Gulbarga University)
3. Ph.D. In Mathematics (1999, Gulbarga University)

Additional: Nil

3. **Professional Experience:** 1 .Lecturer (PG)(GL) - 1989-
1990

2. Lecturer (PG) - 1990-1996

3. Reader (PG) - 1996-2004

6. Professor (PG) – 2004 onwards

4. **Professional Recognition:** Professor,
Chairman (2006-2008),
Registrar Evaluation at Gulbarga University, Kalburgi 2021-22.

5. **Research Recognition:** Professor, Guide, Chairman of B.O.S. (PG) (2014-2017)and
Coordinator, UGC- SAP-DRS-I (2012-2017).

6. **Abroad Visit:** Participated and presented a paper in 18th International conference on
Mathematical Analysis and Graph Theory held *San Francisco, USA* during Sept 26-27, 2016.

7. **Awards Received:**Nil

8. **Member of Professional / Academic bodies:**1. Life Member of Jammu Mathematical Society.

2. Life Member of Vishwa International publication

9. Areas of interest:

Academic interest: Algebra, Linear Algebra, Real Analysis, and Discrete Mathematics

Research Interest: Graph Theory and Fuzzy Graph Theory

10. Post-Doctoral Research Activities: Nil

11. Research Supervision:

Ph. D Awarded: 21

Ongoing: 05

M. Phil Awarded: 21

12. Workshops/ Symposiums / Conferences attended: 52

13. Research Publications: 140

Recent papers appeared in google scholar

1. ON VERTEX-EDGE AND EDGE-VERTEX CONNECTIVITY INDICES OF GRAPHS

(with S PAWAR, AM NAJI, ALIR ASHRAFI, ALI GHALAVAND)

Kragujevac Journal of Mathematics 48 (2), 225-239, 2024

2. On fourth leap Zagreb index of graphs

(with A Alsinai, A Saleh, H Ahmed, LN Mishra)

Discrete Mathematics, Algorithms and Applications, 2250077 2022

3. Leap Eccentric Connectivity Index of Subdivision Graphs

(with A Ghalavand, S Pawar)

4. Research Article Leap Eccentric Connectivity Index of Subdivision Graphs

(with A Ghalavand, S Pawar)

5. On Reciprocal leap function of graph

(with A Alsinai, A Alwardi)

Journal of Discrete Mathematical Sciences and Cryptography 24 (2), 307-324 2021

6. Forgotten domination, hyper domination and modified forgotten domination indices of graphs

(with H Ahmed, MR Salestina, A Alwardi)

Journal of Discrete Mathematical Sciences and Cryptography 24 (2), 353-368 2021

7. Reciprocal leap indices of some wheel related graphs

(with S Javaraju, A Alsinai, A Alwardi, H Ahmed)

Journal of Prime Research in Mathematics 17 (2), 101-110 2021

8. HDR degree based indices and Mhr-polynomial for the treatment of COVID-19

(with A Alsinai, H Ahmed, A Alwardi)

Biointerface Research in Applied Chemistry 6 (12), 7214-7225 2021

9. Topological properties of Graphene using ψ_k polynomial

(with A Alsinai, A Alwardi)

Proceedings of the Jangjeon Mathematical Society 24 (3), 375-388 2021

10. Leap Zagreb indices for the Central graph of graph

(with A Alsinai, A Alwardi, H Ahmed)
Journal of Prime Research in Mathematics 17 (2), 73-78 2021

11. Domination, γ -Domination Topological Indices and $\phi(P)$ -Polynomial of Some Chemical Structures Applied for the Treatment of COVID-19 Patients
(with H Ahmed, A Alwardi, MR Salestina)
Biointerface research in applied chemistry, 13290-13302 2021

12. ON THE ROMAN DOMINATION POLYNOMIAL OF GRAPHS
(with D Gangabylaiah, MH Indiramma, A Alwardi)
Bull. Int. Math. Virtual Inst 11 (2), 355-365 2021

13. Domination, γ - Domination Topological Indices and ϕP - Polynomial of Some Chemical Structures Applied for the Treatment of COVID-19 Patients
(with H Ahmed, A Alwardi, M Ruby Salestina)

14. On Reciprocals Leap indices of graphs
(with A Alsinai, A Alwardi)
International Journal of Analysis and Applications 19 (1), 1-19 2021

15. On the ψ_k -polynomial of graph
(with A Alsinai, A Alwardi)
Eurasian Chemical Communications 3, 219-226, 2021

16. The third leap Zagreb index of some graph operations
(with AM Naji, MI Sowaity)
Mathematical Combinatorics 4, 80-88 2020

17. An Atlas of Different Distances Sets Polynomials of Graphs of Order at most Six
(with A Alsinai, A Alwardi)
International Journal of Mathematics And its Applications 8 (3), 147-161 2020

18. On some topological indices of thorn graphs
(with S Pawar)
Malaya Journal of Matematik (MJM) 8 (3, 2020), 1206-1212 2020

19. A study on some properties of leap graphs
(with AM Naji, B Davvaz, SS Mahde)
Communications in Combinatorics and Optimization 5 (1), 9-17

International Journals: 65

1. Entire Domination of Graphs, Advanced in Graph theory, ed., Vishwa International Publications, (1991), 237-243. (with V. R. Kulli).
2. The independent neighborhood number of graphs, Nat. Acad. Sci, letter 19(1996) (with V. R. Kulli).
3. Efficient bondage number of a graphs, Nat. Acad. Sci, letter, 19(1996), 997-201 (with V. R. Kulli).
4. Complementary edge domination the Graphs, Indian J. Pure and Applied Mathematics 28(7) (1997), 917-920 (with V. R. Kulli).
5. Double Edge Domination in Graphs, Proceedings of the Jangjeon Mathematical Society, South Korea, 5(1)(2002) 15-20 (with B. Chaluvvaraju).
6. Complimentary Neighborhood in Graphs, Nat. Acad. Sci Lett., 26(9- 10)(2003) 271-275 (with B. Janakiram and M. A. Davis).
7. Domination in 2-Complement (2(i)-Complement) of a Graph, Advance Studies Contemporary Maths. 7(2)(2003) 145-154 (with B. Janakiram and B. Chaluvvaraju).
8. Uniform Neighborhood Number of a Graph, Proceedings of the Jangjeon Mathematical

- Society,
6(2)(2003) 125-135(with B. Chaluvvaraju).
9. Maximal total domination number of a graphs, The Aligarh Bull. Of Maths. 22(1)(2003) 29-33 (with Puttaswamy).
 10. The paired neighbourhood number of a graph, Proc. Of the Jangjeon Mathematical soc. 8(1)(2005) 113-121 (with B. Chaluvvaraju).
 11. H-adjacent domination in graphs, Nat. Acad. Sci Lett. 29(7,8)(2006) 293- 297 (with B. Janakiram and M. A. Davis).
 12. The nonsplit domination number of Fuzzy graphs, Bull. Pure Appl. Math. 1(2)(2007) 200-207(with Q. M. Mahioub).
 13. On independent neighborhood and Coloring graphs, Advances in Theoretical and applied Mathematics, 2(2007) 117-122(with S. Ghobadi).
 14. Partially balanced incomplete block designs arising from minimum efficient dominating sets of a graphs, Bull. Pure Appl. Math. 2(1)(2008) 47-56(with B. Sharada).
 15. Inverse dominating set in Fuzzy graphs, Proce. Of the Jangjeon Mathematical Society, 11(1)(2008) 75-81(with S. Ghobadi and Q. M. Mahioub).
 16. Roman edge domination in graphs, Proc. Nat. Acad. Sci. Lett.(79)(2009) 45-50, (with B. Chaluvvaraju and J. P . Srivastava).
 17. Connected neighborhood number in a Fuzzy graphs, ACM Journal (2009) (with A. Arunkumar and Q. M. Mahioub).
 18. Total numbers of special kinds of neighborhood sets of graphs International journal of Mathematical Archive 2(4), (2011),433-437(with M. P Sumathi).
 19. Partial Balanced incomplete Block Designs Arising from a Maximal independent set of an SRNT Graph, Advanced and Applications in Discrete Mathematics 7(2)(2011), 121-12 (with A. Alwardi and G. Deepak).
 20. On the number of minimum neighborhood sets in paths and cycles, General Mathematics Notes 3(1), 2011.(with M.P. Sumathi).
 21. On the common-neighborhood energy of a graph Bulletin de l'Acad_emie Serbe des Sciences et des Arts (Classe des Sciences Math_ematiques et Naturelles) (36) (2011) 49-59, (with A. Alwardi and Ivan.Gutman) .
 22. Some Induced subgraphs of Strongly Regular Graphs with no Traingles, International Mathematical Forum, 6(46) (2011), 2261-2266. (with A.Alwardi) .
 23. mth-power symmetric n-sigraphs, Italian Journal of pure and Applied Mathematics 29, (2012), 87-92.(with R. Rangarajan and P. Siva Kota Reddy) .
 24. Tactical Configuration, BIBD Designs And Association Scheme Arising From SRNT Graphs, International Journal of Pure and Applied Mathematics, Volume 74, No. 4 (2012) 519525(with Anwar Alwardi, Ahmad N. Al-Kenani) .
 25. On the middle CN-dominating graphs, J. Math. Computation. Sci. 2(4) (2012) 889-897 (with Anwar Alwardi and G. Deepak).
 26. Minimal, Vertex Minimal and Commonality Minimal CN-Dominating graphs, Translations on Combinatorics 1(1) (2012), 21-29 (with Anwar Alwardi).

27. The Middle Equitable Dominating Graphs, Open Journal of Discrete Mathematics, 2 (2012), 93-95, (with Anwar Alwardi and A. N. Alkenani).
28. The Common Neighborhood Graph and Its energy, Iranian Journal of Mathematical Sciences and Informatics 7(2) (2012), 1-8 (with Anwar Alwardi, B. Arisc and Ivan Gutman).
29. Totally Connected Domination In Graphs, Adv. Stu. Contemp, Math. 22(4), (2012), 557-563, (with Anwar Alwardi).
30. On the Defining Number and Strong Defining Number for Vertex Coloring of Jahangir Graphs, Adv. Stu. Contemp, Math. 22 (3) (2012) 391-398, (with T. Zahira).
31. Partially balanced incomplete block designs associated with minimum perfect dominating sets of Clebsch graph, International Journal of Applied Mathematics and Computations, 4(1), (2012), 39-48 (with P.N. Vinay Kumar and U.S Mahabaleswar) .
32. On the Domination subdivision Numbers of Grid Graphs, International Journal of Graph Theory, 1(1) (2013), 17-22, (with Sarada B and Shivaswamy. P. M).
33. The P3-Domination in Graphs, Adv. Stu. Contemp, Math. 23(1), (2013), 183-194, (with Anwar Alwardi).
34. Equitable Edge Domination in Graphs, Bulletin of society of Mathematicians 3(2013), 7-13, (with Anwar Alwardi).
35. Independent Transversal Equitable Domination in Graphs. Int. Mathematical Forum 8(15), 2013 743-751. (with B.V. Dhanjaya Murthy and G. Deepak) .
36. Equitable Edge Domination in Graphs, Bulletin of International Mathematical Virtual Institute, 3 (2013), 7-13. (With Anwar Alwardi), Bulletin of Society of Mathematicians Banja Luka.
37. CN-Edge Domination in Graphs, Vladikavkaz Mathematical journal, 15 (2) (2013), 3-10. The Southern Mathematical Institute of the Vladikavkaz Scientific Center of the Russian. (With Anwar Alwardi).
38. Total restrained domination in graphs of diameter 2 or 3, Mathematical sciences, 7(26) (2013), Mathematical sciences, springer open journal.) (With Zahra, Hossein Abdollah Zadeh Ahangar, Doost Ali Mojdeh and Yancai Zhao).
39. Graphs and Degree Equitability, Applied Mathematics 4(2013), 1199-1203. (With Anwar Alwardi and A. Alkenani). Scientific Research.
40. Further Results on the Common Neighborhood Domination and Some Related Graphs, Adv. Studies Contemp. Math. 24 (1) (2014), (With Anwar Alwardi).
41. Resolving connected domination in graphs, international journal of math. Combin. 4(2015), 129-136. (with Ahmed Naji), Impact Factor: 1.416.
42. The upper domination energy of a graph, International journal of advanced technology of engineering and science, 3(4), (2015), (with Dhananjaya Murthy and Ahmed Naji), Impact Factor: 2.870.
43. The Minimum Monopoly Energy of a Graph, International journal of mathematics and its applications, 3(4) (2015), 47-58 (with Ahmed Naji), Impact Factor: 0.564.

44. On The Monopoly of Graphs, Proceedings of the Jangjeon mathematical society, 18(2), 2015, 201-210 (with Ahmed Naji). H. index.
45. The Connected Monopoly in Graphs, International journal of multidisciplinary research and development, 2(4)(2015), 273-277, (with Ahmed Naji), Impact Factor: 3.762.
46. The Minimum Monopoly Distance Energy of a Graph, International Journal of Computer Applications (0975 - 8887), 128 (3)(2015), 1-6, (with Ahmed Naji), Impact Factor: 3.12.
47. The Maximum Eccentricity Energy of a Graph, International Journal of Scientific and Engineering Research, 7(5)(2016), 5-8, (with Ahmed Naji), Impact Factor: 3.8.
48. Monopoly Free and Monopoly Cover in Graphs, International journal of mathematics and its applications, 4(2-A) (2016), 71-77, (with Ahmed Naji), Impact Factor: 0.564 .
49. Narumi-Katayama and Multiplicative Zagreb Indices of Dutch Windmill Graph, International Journal of Scientific & Engineering Research, 7(5) (2016), 32-33. (with Pradeep Kumar and Rajesh Kannan).
50. Some topological indices of cholesterol, International Journal of Applied Mathematics 30(1) (2017), 73-83.(with R. Pradeep Kumar and Rajesh Kannan).
51. Redefined Zagreb, Randic, Harmonic and GA Indices of Graphene, International Journal of Mathematical Analysis 11(10) (2017), 493 – 502. (with R. Pradeep Kumar and M. R. Rajesh Kanna).
52. The k-distance neighborhood polynomial of a graph, World Academy Sciences and Engineering Technology Conference Proceedings, San Francisco, USA, Sep 26-27, 18(9) (2016), part XV, 2359-2364. (with Ahmed Naji).
53. On the monatic number of a graph, International Journal of Advances in Applied Mathematics and Mechanics, 4(2) (2016), 44-51. (with Ahmed Naji).
54. Domination free and domination cover of a graph, International Journal of Advances in Mathematics and Statistics}, 1(4) (2016),7-14. (with Ahmed Naji).
55. Partitioning a graph into monopoly sets, TWMS Journal of Applied and Engineering Mathematics}, 7(1) (2017), 154-164. (with Ahmed Naji).
56. The k-distance neighborhood polynomial of some graph operations, Asia Pacific Journal of Mathematics, 4(1) (2017), 23-31. (with Ahmed Naji).
57. The k-distance degree index of some graph operations, International Journal of Mathematics Combinatorial, 4 (2017), 91-102. (with Ahmed Naji).
58. On leap Zagreb indices of graphs, Communications in Combinatorics and Optimization}, 2(2) (2017), 99-117. (with Ahmed Naji and Ivan Gutman).
59. The k-distance neighborhood polynomial of splitting graphs of a graph, Bulletin of International Mathematical Virtual Institute, 8(2018), 325-336. (with Swamy and Ahmed Naji).
60. The k-distance degree index of a graph, Palestine Journal of Mathematics, 7(2) (2018), 690-701. (with Ahmed Naji).
61. The first leap Zagreb index of some graph operations, International journal of applied graph theory, 2(1)(2018), 07-18. (with Ahmed Naji).
62. Leap Zagreb indices of some wheel related graphs, Journal of Computer and Mathematical Sciences, 9(3)(2018), 221-231. (with P. Shiladhar and Ahmed Naji).
63. Computation of leap Zagreb indices of some windmill graphs, Int. J. Math. and its Appl.,

- 6(2-B) (2018), 183-191. (with P. Shiladhar and Ahmed Naji)
64. The monopoly in the join of graphs, Journal of Informatics and Mathematical Sciences, 10(3) (2018), 399-409. (with Ahmed Naji)
65. Leap eccentricity connectivity index of some graph operations, International Journal of Research and Analytical Reviews, 6(1) (2019), 882-887, (with, H. R. Manjunathe, P. Shiladhar, and Ahmed Naji).

National Journals: 57

1. The Maximal Neighborhood number of a Graph, Far East J. Appl. Math. 5(3)(2001) 301-307 (with B. Janakiram and Chaluvvaraju).
2. The Block Number of Graph, Proc. Nat. Conf. On Challenges of the 21st century in Maths and its allied topics, ed., B. S. Kiranagi, (2001) 296-301 (with V. R. Kulli).
3. The Split Total Domination number of a Graph, Proc. Nat. Conf. On Challenges of the 21st century in Maths and its allied topics, ed., B. S. Kiranagi, (2001) 311- 316 (with B. Chaluvvaraju).
4. The Efficient Domatic Number of a Graph, Proc. Nat. Conf. On Challenges of the 21st century in Maths and its allied topics, ed., ed., B. S. Kiranagi, (2001) 283- 287 (with Puttaswamy).
5. Total Split Domination in Graphs, Far East J. Appl. Math. 6(1) (2002) 89- 95 (with B. Janakiram and Chaluvvaraju).
6. The Block Neighborhood Number of a Graph, Far East J. Appl. Math., 9(2)(2002) 127-135 (with Puttaswamy).
7. The Connected Efficient Domination number of a Graph, IJOMS 19(1)(2003) 37- 42 (with V. R. Kulli).
8. The Connected Double Domination number of a Graph, Acta. Cienc. Indica, 29M(2003) 237- 242 (with B. Chaluvvaraju).
9. Complementary Edge Neighborhood in Graph, Far East J. Appl. Math. 11(3)(2003) 177- 182 (with B. Janakiram and M. A. Davis).
10. Maximal edge neighborhood in graphs, Indian Journal of Mathematics 46(2 & 3) (2004) 283-291, (with B. Janakiram and B. Chaluvvaraju).
11. Global neighborhood in graph, Acharya Nagarjuna Int. J. Maths. And Inf. Tech. 1(2004) 01-11 (with Puttaswamy).
12. Complementary acyclic domination in graphs, Journal of the Indian Math. Soc. 71(14)(2004) 221- 226 (with Janakiram and M. A. Davis).
13. The double global domination number of a graph, Journal of Indian Math. Soc. 70(14) (2003) 191- 195 (with B. Chaluvvaraju and B. Janakiram).
14. Total Nonsplit domination number of a graph, The Maths. Education 38(2)(2004) 77- 80 (with B. Chaluvvaraju).
15. Vertex-set neighborhood and strong nonsplit neighborhood parameters in graphs, Ultra Science 17(1) (2005) 35-40 (with Puttaswamy).
16. Paired neighborhood in graphs, Far East J. Appl. Math. 22(2)(2006) 215- 224 (with B. Chaluvvaraju and K. M. Yogeesh).
17. The connected total domination number of a graph, Journal of Analysis and

- computation,
2(2)(2006) 183-189(with V. R. Kulli).
18. Neighborhood in subdivision graphs, *Ultra Science* 18(2)M,(2006)243-248(with Puttaswamy).
19. The k-nonsplit domination number of a graph, *IJOMS*, 22(1)(2006)53-58 (with B. Janakiram and B. Chaluvvaraju).
20. Vertex Component domination in graphs, *Indian Journal of Mathematics*, 48(1)(2006) 57-62(with B. Janakiram and M. A. Davis).
21. The double bondage number of a graph, *Ultra Science*, 19(2)M(2007) 439- 442(with K. M. Yogeesh).
22. Complementary total domination in graphs, *Journal of Discrete Mathematical Science and Cryptography*, 10(4)(2007)505-516(with B. Chaluvvaraju).
23. Fuzzy Covering and Fuzzy Neighborhood set in Fuzzy Graphs, *Ultr Science* 19(3)M(2007) 601-608(with Q. M. Mahioub).
24. The Double domination number of fuzzy graphs *Journal of Applied Mathematical Analysis and Applications*, 3(2) (2007) 97-104(with Q. M. Mahioub).
25. On the number of minimum independent dominating sets in paths and cycles, *Journal of Applied Mathematical Analysis and Application* 3(2)(2007) 155-169(with K. M. Yogeesh).
26. Disjoint perfect domination number of a graph, *Journal of Applied Mathematical Analysis and Applications*, 3(2)(2007) 171-179(with B. Sharada).
27. Nomatically Cocritical Graphs, *Ultra Science* 20(1)M(2008) 205-208(with S. Ghobadi and K. M. Yogeesh).
28. The Split domination number of fuzzy graphs, *Far East Journal of Appl. Maths* 30(1)(2008) 125-132(with Q. M. Mahioub).
29. The Split edge domination number of a graph, *Far East J. of Appl. Maths.* 30(1)(2008) 93-100 (with K. M. Yogeesh and S. Ghobadi).
30. The Nomatic number problem in interval graphs, *Far East J. of Appl. Maths*, 30(2)(2008)235-244(with S. Ghobadi).
31. Switching equivalence in symmetric n-Sigraphs-II, *J. Orissa Math. Soc.* 28,(1/2) (2009),1-12. (with R. Rangarajan and P. Siva Kota Reddy).
32. The block perfect domination number of a graph, *Advances and Applications in Discrete Mathematics* 4(2), (2009), 161-168, (with S. R. Ramachandra).
33. The perfect domatic number of factors of Graphs, *International journal of physical sciences* , 22(3), M(2010), 862-866.
34. Roman k-edge domination in graphs, *Ultra scientists of physical science*, 22(3)(2010) 203-207, (with S. R. Ramachandra).
35. Design associated with maximum independent set of cubic graphs, *Journals of Computer and Mathematical sciences* 1(3), (2010), 300-309. (with P. N. Vinay kumar).
36. Strong domination critical and stability in graphs, *J. Comp and math. Sci.* 1(3) (2010) 294-299. (with S. R. Ramachandra).
37. On the common neighborhood domination number, *Journal of Computer and*

Mathematical

- sciences 2(3)(2011), 547-556, (with A. Alwardi and G. Deepak).
38. Some results on switched graphs, Journal of Computer and Mathematical sciences 2 (2011), 260-264 (with A. Alwardi and M. P. Sumathi) .
39. The Maximal equitable domination number of a graph, J. Comp. and Math. Sci. 2 (4), 617-620 (2011) , (with P.N.Vinaykumar).
40. Partial Balanced Incomplete Block Design Arising From Some Minimal Dominating Sets of SRNT Graphs, International Journal of Mathematical Archive 2, (2011), 233- 235. (with A. Alwardi) .
41. Association scheme on some cycles related with minimum neighbourhood sets. My Science Vol V(1-2), Jan-Jul (2011), 23-27 (with M. P. Sumathi) .
42. Minimal equitable dominating graphs, IJMSEA, 6(4), (2012), 273-278 (with M.P. Sumathi).
43. Inverse Equitable domination in Graphs, RJPA-2(9), (2012), 1-7 (with Sivakumar S and A Alwardi) .
44. Neighborhood Connected Equitable Domination in Graphs, Applied Mathematical Sciences Vol. 6, 2012, No. 50, 2445 – 2452 (with Anwar alwardi and S. Sivakumar).
45. Connected equitable domination in graphs, pure mathematical sciences 1(3),(2012),123-130 (with S Shivakumar, Anwar and G.Deepak).
46. Outer Equitable connected Domination on Graphs, Indian Journal of Maths and Mathematical sciences 1 (8), (2012) 77-81 (with G. Deepak and Anwar Alwardi) .
47. Neighborhood Connected equitable Domination In Graphs, Applied Mathematical Sciences, 6(50), (2012) 2445-2452, (with S. Sivakumar and Anwar Alwardi).
48. Neighborhood Number in graphs, The Journal of Mathematics and Computer Science, 5(4), (2012), 265-270, (with T. Zahira).
49. Neighborhood Connected 2-equitable domination in Graphs, RJPA, 3(2) (2013) 95- 100, (with S. Shivakumar and Anwar Alwardi).
50. Neighborhood connected equitable edge domination in graphs, RJPA-3(3), (2013) 119-125 (With S Sivakumar and A Alwardi) .
51. The independent Transversal neighborhood Number of a Graph, RJPA, 3(1) (2013) 62-66, (with Shivaswamy. P. M).
52. Total Co-Independent Domination in Graphs, Applied Mathematical Sciences, 6(131) (2012) 6545-6551, (with B. V. Dhananjaya Murthy).
53. The Independent Transversal Neighbourhood Number of a Graph, Research Journal of Pure Algebra, 3(1) (2013), 62-66 (With Shivaswamy P. M).
54. Connected Domination Polynomial of a Graph, IJMA, 4 (11) (2013), 90-96. (With B. V. Dhananjaya Murthy and G. Deepak).
55. Triple Connected Equitable Domination in Graphs, IJMA-4(5), (2013) 90-97 (With Sivakumar. S).
56. The maximal monopoly of graphs, Journal of computer and mathematical sciences, 6(1) (2015), 33-41 (with Ahmed Naji), Impact Factor: 1.92.
57. Computation of Topological Indices of Mesh, Grid, Torus and Cylinder, Applied Mathematical Sciences, 11(28) (2017), 1353 – 1371. (with R. Pradeep Kumar and M. R. Rajesh Kanna)

14. **Book / Chapter in Book:** 2 books-

1. KSOU Self Study Material on Graph Theory and Algorithms.

2. KSOU Self Study Material on Discrete Mathematics.

15. **Books Edited and authored:** Nil

16. **Journals Edited:**Nil