

Anil Kumar V.

Curriculum Vitae

PERSONAL DETAILS

<i>Birth</i>	June 27, 1964
<i>Address</i>	Aluvila, Manakkal Chempazhnathy P.O Trivandrum Kerala, India 673 635
<i>Sex</i>	Male
<i>Nationality</i>	Indian
<i>Phone</i>	9605494831
<i>Mail</i>	anil@uoc.ac.in,

EDUCATION

Ph.D. Mathematics

1997

University of Kerala

Title of the thesis: A Study on Point Symmetric Graphs.

Supervising Teacher: Prof. Sathyabhama V.

M.Phil. Mathematics

1992

University of Kerala

Title of the thesis: Point Symmetric graphs and Algebraic Extension of Graphs

Supervisor: Prof. Sathyabhama V.

Grade Obtained: A

M.Sc. Mathematics

1990

University of Kerala

Institution: Department of Mathematics

University of Kerala

Percentage of marks: 85.4(First Rank)

B.Sc. Mathematics

1985

University of Kerala

Institution: S. N. College, Chempazhanthu, Trivandrum

Percentage of Marks: 95.71

SKILLS

<i>Languages</i>	Malayalam (mother tongue) English
<i>Software</i>	FORTAN, C, C++, MATLAB, L ^A T _E X, MAPLE, Python, Moodle

OTHER QUALIFICATIONS

NET Passed NET Examination conducted by UGC/CSIR	1997
GATE Passed GATE Examination with percentile score 97.51(All India Rank 16.)	1994
Account Test Passed Account Test for Executive Officers conducted by Kerala Public Service Commission.	1989

TEACHING EXPERIENCE

Lecturer <i>St. Xavier's College Thumba</i> Period: 14.12.1994 to 30.06.1995 Scale of pay: 8000 – 275 – 13500	1994
Lecturer <i>S. N. College, Kannur</i> Period: 02.12.1995 to 25.04.1997 Scale of pay: 8000 – 275 – 13500	1995
Assistant Professor <i>Kerala Agricultural University</i> Period: 26.04.1997 to 25.04.2001 Scale of pay: 8000 – 275 – 13500	1997
Assistant Professor(Sr. Scale) <i>Kerala Agricultural University</i> Period: 26.04.2001 to 25.04.2006 Scale of pay: 10000 – 325 – 15200	2001
Associate Professor <i>Kerala Agricultural University</i> Period: 26.04.2006 to 27.01.2009 Scale of pay: 12000 – 420 – 18300	2006
Reader <i>University of Calicut</i> Period: 28.01.2009 to 27.01.2012 Scale of pay: 12000 – 420 – 18300	2009
Associate Professor <i>University of Calicut</i> Period: 28.04.2009 to 27.01. 2015 Scale of pay: 37400 – 6700, AGP 9000	2012
Professor <i>University of Calicut</i> Period: 28.01.2015 on wards Scale of pay: 37400 – 6700, AGP 10000	2015

LIST OF PUBLICATIONS(RESEARCH PAPERS)

1. Anil Kumar V., A Simple Proof of the Arithmetic Geometric Mean Inequality, News Letter, Sep. 1997, No.2, Vol 7., pp 41.
2. Anil Kumar V., A Simple Proof of the Holders Inequality, News Letter, Sep. 1997, No.3, Vol 7., pp 57-58.
3. Anil Kumar V, An AM – GM Variation, American Mathematical Monthly, Vol. 106, No.10(Dec., 1999), p.969
4. Anil Kumar V., A Note on a Series, News Letter, Sep. 1998, No.1, Vol 8., pp 12-13.
5. Sathyajith Mathew, K.P. Pandey and Anil Kumar V, Analysis of Wind Regimes Energy for Energy Estimation, Renewable Energy, Volume 25, issue 3, 2002.
6. Sathyajith Mathew, Anil Kumar V., Damodar Rao, Devanand U Gorate, Geetha Susan Philip and Vishnu B., Performance Simulation of Wind Energy Conservation Systems using Wind Energy Resource Analysis, International Conference of institution of Engineering and technology, Brunei Darussalam Network, 2008, pp 1-4.
7. Anil Kumar V & Sathyajith Mathew, A Method for estimating the Surface Area of Ellipsoidal Food Materials, Biosystems engineering, ISSN 1537-5110, Vol. 85, No 1, 2003, págs. 1-5.
8. Anil Kumar V & Vishnu B, A summation formula for estimating the surface area of general ellipsoids, Journal of Computational Mathematics Vol. 22, No. 3 (MAY 2004), pp. 403-406.
9. Anil Kumar V., An alternate proof for the inequality “An AM-GM variation”, South Asian Journal of Mathematics 2012 , Vol. 2 (2) : 199 – 200
10. Anil Kumar V & Ashok Parameswaran Nair, A regression Model for estimating surface area of general ellipsoids, Volume 4, Issue 1, Pages 1 - 7 (September 2010)
11. Anil Kumar V & Ashok Parameswaran Nair, A class of double coset Cayley digraphs induced by right solvable ward groupoids, South Asian Journal of Mathematics 2012 , Vol. 2 (4) : 360 - 372
12. Anil Kumar V & Ashok Parameswaran Nair, A Class of Cayley Digraph Structures Induced by Groups, Journal of Mathematics Research Vol. 4, No. 2; April 2012.
13. Anil Kumar V and Ashok Parameswaran Nair, A class of Cayley digraphs induced by loops , Journal of Mathematics and Computational Science, Vol 2, No. 5, 2012.
14. Anil Kumar V. & Ashok Parameswaran Nair, Coset Cayley Graph Structures, Journal of mathematical and computational Science, 2(6), 2012, 1766-1784
15. Anil Kumar V., Double Coset Cayley Digraphs, International Journal of Algebra, Vol. 5, 2011, no. 15, 747 – 753.
16. Anil Kumar V, A Class of Double Coset Cayley Digraphs Induced by Loops, International Journal of Algebra, Vol. 5, 2011, no. 22, 1073 – 1084
17. Anil Kumar V., A Class of Vertex - Transitive Graphs Induced by Quasigroups, International Mathematical Forum, Vol. 6, 2011, no. 50, 2497 – 2511

18. Anil Kumar V & Shyama M.P , A Class of Generalized Cayley Digraphs Induced by Quasigroups, Theoretical Mathematics & Applications, vol.2, no.1, 2012, 127-142
19. Anil Kumar V and Mohanan T., On generalizations transitive Cayley graphs induced by loops, Fareast Journal of mathematical Sciences, Vol. 76, No.1, 2013, 25-44.
20. N. M. M. Namboothiri, V. A. Kumar, and P. T. Ramachandran, "Cayley fuzzy graphs," Far East Journal of Mathematical Sciences, vol. 73, pp. 1–15, 2013.
21. Anil Kumar V and Mohanan T., Generalization of Transitive Cayley Digraphs, Journal of Mathematics Research; Vol. 4, No. 6; 2012
22. Anil Kumar V and Mohanan T., Transitivity of Generalized cayley digraphs, South Asian Journal of mathematics, 2012 , Vol. 2 (6) : 542-557
23. Anil Kumar V., A class of generalized Caayley graphs induced by loops, South Asian Journal of Mathematics, Vol2, No. 3, 2012
24. Anil Kumar V and Shyama M.P., A Class of Double Coset Cayley Digraphs Induced by Quasigroups, Journal of Mathematics Research Vol. 4, No. 2; April 2012
25. Anil Kumar V, A class of Cayley Graphs induced by Right Solvabe Ward Groupoids, MATEMATIQKI VESNIK, 65, 4 (2013), 466–469.
26. Anil Kumar V., Generalised cayley Graphs, Pure Mathematical Sciences, Vol. 1, 2012, no. 1, 1 – 12.
27. Anil Kumar V and Vandana P.T, V4- Magic Labelings of Some Shell Related Graphs, British Journal of Mathematics & Computer Science, 9(3): 199-223, 2015, Article no.BJMCS.2015.197
28. P.T.Vandana, V.Anil Kumar, Some Special V4 Barycentric Magic Graphs, Bulletin of Kerala Mathematics Association, 14(2), 235-250, (2017)
29. P.T.Vandana, V.Anil Kumar, A note on V4-magic labelings of graphs, Journal of Infor- mation amp; Optimization Sciences, 37(6), 873-880, (2016).
30. V.Anil Kumar, P.T.Vandana, V4-magic labelings of some Shell related graphs, British Journal of Mathematics and Computer Science, 9(3), 199-223, (2015).
31. P.T.Vandana, V.Anil Kumar, V4-bimagic graphs, Advances and Applications in Discrete Mathematics, 18(3), 237-268, (2017).
32. P.T.Vandana, V.Anil Kumar, On a class of V4-barycentric magic graphs, Far East Journal of Mathematical Sciences, 102(1), 67-96, (2017).
33. Vandana P.T. and Anil Kumar V., V4- Magic Labelings of Some Wheel Related Graphs, 8(3): 189-219, 2015,
34. P. T. Vandana and V. Anil Kumar, V4 Magic Labelings of Some Graphs, British Journal of Mathematics & Computer Science, 2015,
35. Shyama P. and Anil Kumar V., Total Domination Polynomials of squares of some graphs, Advances and Applications in Discrete Mathematics, Vol 15, No. 2, 2015, 167-16

36. Latheesh Kumar A. R and Anil Kumar V., A Note on Global Domination in Graphs, *Malaya Journal of Matematik* : Volume 4, Issue 3, 2016, Pages:438-442.
37. A. R. Latheeshkumar and Anil Kumar V., On total domination polynomials, *Far East Journal of Mathematical Sciences*, Volume 102, Number 10, 2017, Pages 2277-2289.
38. Latheeshkumar A. R. and Anil Kumar. V., On Global Bipartite Domination Polynomials, *Palestine Journal of Mathematics*, Vol. 7(1)(2018) , 227–233.
39. Latheesh Kumar A.R., Anil Kumar V, TD-Polynomials of Paths and Cycles- A New Approach, *Global Journal of Pure and Applied Mathematics (GJPAM)*, Vol.13, No. 10, (2017)
40. Latheeshkumar A.R., Anil Kumar.V, Total Domination Polynomials of Some splitting Graphs, *Advances and applications in Discrete Mathematics*, Vol. 18, No. 3, (2017)
41. Vandana P.T and Anil Kumar V., A Note on V4 magic Graphs, *Journal of Discrete Mathematical Sciences & Cryptography* (Accepted for publication)
42. Shyama M.P and Anil Kumar V., On the roots of Hosoya Polynomial, *Discrete mathematical Sciences & Cryptography*, Vol 19, No.1, 2016.
43. Shikhi M. and Anil Kumar V., *Common neighbor polynomial of graphs*, *Far East Journal of mathematical sciences*, Volume 102, Number 6, 2017, Pages 1201-1221.
44. Shikhi M. and Anil Kumar V., *Common neighbor polynomial of graph operations*, *Far East Journal of mathematical sciences*, Volume 102, Issue 11, 2017, Pages 2629 - 2641.
45. Shikhi M. and Anil Kumar V., *CNP-equivalent Classes of Graphs*, *South East Asian Journal of Mathematics and Mathematical Sciences*, Vol.13, No.2, 2017, pages 75-84.
46. Neethu K.T and Anil Kumar V., Cayley fuzzy graphs induced by loops, *Far East Journal of Mathematical Sciences* 102(6):1139-1163 · September 2017
47. Neethu K.T and Anil Kumar V., Cayley Bipolar Fuzzy Graphs Induced By Loops, *Global Journal of Pure and Applied Mathematics*, Volume 13, Number 9 (2017), pp. 6681-6693
48. Shikhi M. and Anil Kumar V., *On the Stability of Common Neighbor Polynomial of some Graphs*, *South East Asian Journal of Mathematics and Mathematical Sciences*, Vol.14, No.1, 2018, pages 95-102.
49. Shikhi M. and Anil Kumar V., *Common neighbor polynomial of some graph constructions*, *International Journal of Research in Advent Technology*, Vol.6, No.11, 2018, pages 3330-3334.
50. Shikhi M. and Anil Kumar V., *On the real roots of common neighbor polynomial of graphs*, *Journal of Applied Science and Computations*, Vol.6, Issue 4, 2019, pages 1424-1431.
51. Shikhi M. and Anil Kumar V., *Generalized common neighbor polynomial of graphs*, *International Journal of Mathematical Combinatorics*, Vol.3, 2019, pages 80-89.

52. K. P. Vineesh and V. Anil Kumar, Neighbourhood V_4 -magic labeling of some cycle related graphs, Far East Journal of Mathematical Sciences (FJMS), Volume 111, Number 2, 2019, Pages 263-272.
53. K. P. Vineesh and V. Anil Kumar, Neighbourhood V_4 -magic labeling of star and path related graphs, Journal of Discrete Mathematical Sciences & Cryptography, Volume 22 (2019), Number 6, Pages 10671076.
54. K. P. Vineesh and V. Anil Kumar, Neighbourhood V_4 -magic labeling of some graphs, Far East Journal of Mathematical Sciences (FJMS), Volume 113, Number 1, 2019, Pages 47-64.
55. K. P. Vineesh and V. Anil Kumar, Neighbourhood V_4 -magic labeling of some splitting graphs, International Journal research in Advent technology, Volume 7, Number 1, January 2019, Pages 530-535.
56. K. P. Vineesh and V. Anil Kumar, Neighbourhood barycentric V_4 -magic labelings of some graphs, International Journal of Research and Analytical Reviews, Volume 6, Issue 1, February 2019, Pages 1350-1360.
57. K. P. Vineesh and V. Anil Kumar, Star magic labeling of some graphs, Far East Journal of Mathematical Sciences (FJMS), Volume 113, Number 2, 2019, Pages 209-219.
58. K. P. Vineesh and V. Anil Kumar, Neighbourhood V_4 -magic labeling of some shadow graphs, International Journal of Mathematical Combinatorics, Volume 2 (2019), Pages 86-98.
59. K. P. Vineesh and V. Anil Kumar, Neighbourhood V_4 -magic labeling of some middle graphs, Malaya Journal of Matematik, Volume 8, Number 2 (2020), Pages 499-501.
60. Neethu K.T. and Anil Kumar V., Cayley Fuzzy Digraph Structure Induced by Groups, International Journal of Mathematical Combinatorics . 2020, 33-39.
61. Shikhi M. and Anil Kumar V., *Common neighbor polynomial of some special trees*, Aegaeum Journal, Vol. 8, Issue 5, 2020.
62. Shikhi M. and Anil Kumar V., *Common neighbor polynomial of graphs and its significance in network data clustering*, Journal of Xidian University, Vol. 14, Issue 4, 2020, 857-862.
63. Libeesh Kumar K.B and Anil Kumar V., Induced V_4 magic labelings of cycle related graphs, Malaya Journal of Mathematics, vol 8, no 2, 473-477, 2020
64. Libeesh Kumar K.B and Anil Kumar V., Induced magic labelings of some graphs, Malaya Journal of Mathematics, vol 8, no 1, 473-477, 2020
65. Priya K. and Anil Kumar V., Edge cut polynomials of graphs, Advances and applications of discrete mathematics, 2020(Accepted for publication)
66. Libeesh Kumar K.B and Anil Kumar V., Induced V_4 - Magic Labeling of Some Star and Path Related Graphs, SEAJMMS, Vol. 16, No. 2, 89–102, 2020

RESEARCH SUPERVISION EXPERIENCE

Candidates Supervised for Ph. D.

1. Ashok Parameswaran Nair
2. Shyama M.P
3. Vandana P.T
4. Latheesh Kumar A.R
5. Shiki M
6. Vineesh K.P

Candidates Supervised for M.Phil.

Supervised twelve M. Phil students

ADMINISTRATIVE EXPERIENCE

1. Head of the Department of Mathematics, University of Calicut from 2011-2013
2. Member UG Board of Studies, University of Kerala from 2011-2014
3. Research Admission Committee Member, Department of Physics, University of Calicut
4. Research Admission Committee Member, Department of Mathematics, University of Calicut
5. Research Admission Committee Member, Department of Statistics, University of Calicut
6. Research Admission Committee Member, Govt College, Pattambi, University of Calicut

LIST OF PUBLICATIONS(BOOKS)

1. Anil Kumar V. and Shyama M.P., Book: Domination and Distance k-Domination Stable Graphs, LAMBERT Publications (2017).
2. Vandana P.T Anil Kumar V., Advances in Computer Networks Information Technology, Book Chapter: V4 Magic Graphs., United Scholars Publications (USA) 5 ISBN-10: 1539855228, ISBN-13: 978-1539855224
3. Anil Kumar V, Differential Equations, Balaleela Publications (2014), ISBN: 9788192517612

MEMBERSHIP IN PROFESSIONAL BODIES

Ramanujan Mathematical Society, Kerala Mathematical Association, Institute of Mathematics Research and Training

EDITORIAL WORK

1. Reviewer of AMS
2. Reviewer of ZbMATH

MEMBERSHIP IN PROFESSIONAL BODIES

Ramanujan Mathematical Society, Kerala Mathematical Association, Institute of Mathematics Research and Training