



ST. ALOYSIUS COLLEGE EDATHUA

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Affiliated to Mahatma Gandhi University, Kottayam

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"LET THY DIVINE LIGHT SHINE MIRACULOUSLY"

FACULTY PROFILE

Personal Details

Name	:	Prof Dr Indulal G
Department	:	Mathematics
Designation	:	Professor and Principal
Educational Qualification	:	M.Sc, M.Phil.Ph.D
Area of Specialisation	:	Graph Theory
Email	:	indulalgopal@gmail.com
Phone number	:	9495382727
Number of Citations	:	1524
h-index	:	17
i10-index	:	20

Education

Sl. No.	Degree	Institution/University	Year
1	B.Sc Maths, 98.8%	Catholicate College, Pathanamthitta	1992
2	M.Sc Maths, First Rank	St Berchmans College, Changanachery	1994
3	M.Phil Maths	Cochin University of Science and Technology	1996
4	Ph.D in Graph Theory	Cochin University of Science and Technology	2008

Career Profile

Sl. No.	Institution/Organization	Designation	Period
1	St Aloysius College, Edathua	Lecturer	3.9.96-2.9.2001
2	St Aloysius College, Edathua	Lecturer Senior Scale	3.9.2001-2.9.2006
3	St Aloysius College, Edathua	Lecturer Selection Grade	3.9.2006-2.9.2009
4	St Aloysius College, Edathua	Associate Professor	3.9.2009-17.7.2018
5	St Aloysius College, Edathua	Professor	18.7.2018-31.5.2023

6	St Aloysius College, Edathua	Professor and Principal in charge	1.6.2023-15.10.2023
7	St Aloysius College, Edathua	Professor and Principal	16.10.2023-

Positions Held or Holding, if any

Sl. No.	Position	Period
1	Member, IQAC	
2	Member UGC Cell	
3	Member , Discipline Committee	
4	Member, Building Committee	
5	Coordinator, IQAC	2012-2016
6	Coordinator, NAAC	2018-2023
7	Editor , College, News Letter	

Research Publications

1. G. Indulal and A. Vijayakumar, On a Pair of Equienergetic Graphs, Comm. Math Comput. Chem. (MATCH)55 (2006), 83 - 90 Scopus Indexed
2. G. Indulal, A. Vijayakumar, Energies of some non-regular graphs, J. Math. Chem.42 (2007), 377 - 386. Scopus Indexed
3. G. Indulal, A. Vijayakumar, Equienergetic self-complementary graphs, Czechoslovak Math J.,58 (2008) 911–919. Scopus Indexed
4. G. Indulal, A. Vijayakumar, Some new integral graphs, Applicable Analysis and Discrete Mathematics, 1 (2007), 420–426. Scopus Indexed
5. G. Indulal, A. Vijayakumar, Classes of T`urker equivalent graphs, Graph Theory Notes of New York, L III , 30 - 36 (2007). Scopus Indexed
6. G. Indulal, A. Vijayakumar, A note on energy of some graphs, MATCH Commun. Math. Comput. Chem. 59(2008), 269-274. Scopus Indexed
7. G. Indulal, I. Gutman, A. Vijayakumar, On distance energy of graphs, MATCH Commun.Math. Comput. Chem. 60(2008),461–472. Scopus Indexed
8. G. Indulal, I. Gutman, On the distance spectra of some graphs, Math. Commun. 13(2008), 123 -131. Scopus Indexed

9. I. Gutman, G. Indulal, and R. Todeschini, Generalizing the McClelland Bounds for Total π - Electron Energy Z. Naturforsch. 63a, 1 3 (2008) Scopus Indexed
10. G.Indulal , Sharp bounds on the distance spectral radius and the distance energy of graphs, Lin. Algebra Appl. 430 (2009), 106–113. Scopus Indexed
11. Indulal, G., The distance spectrum of graph compositions, Ars. Mathematica Contemporanea 2 (2009), 93 – 100. Scopus Indexed
12. Stevanovi´c, D. and Indulal, G., The distance spectrum and energy of the compositions of regular graphs, Appl. Math. Lett. 22 (2009), 136 – 140. Scopus Indexed
13. Indulal, G. and Gutman, I., D- equienergetic self - complementary graphs, Kragujevac. J. Math. (2009), 123 - 131 Scopus Indexed
14. Indulal, G., The spectrum of neighborhood corona of graphs. , Kragujevac J. Math. 35, No. 3, 493 - 500 (2011) Scopus Indexed
15. Indulal, G. Spectrum of two new joins of graphs and infinite families of integral graphs. , Kragujevac J. Math. 36, No. 1, 133 - 139 (2012). Scopus Indexed
16. G. Indulal , R. Balakrishnan, A. Anuradha, Some new families of integral graphs, Indian J. of Pure and Appl Maths, 805–817(2014) Scopus Indexed
17. G. Indulal , Stevanovi´c, D., The distance spectrum of Corona and cluster of two graphs ,AKCE Journal of Graphs and Combinatorics,12 (2015) 186192
18. G.Indulal , A.Vijayakumar , Reciprocal Graphs, Malaya J. Mat. 4(3)(2016) 380–387
19. G.Indulal ,New families of integral graphs, Discrete Mathematics, Algorithms and Applications Vol. 8, No. 4 (2016) 1650063 1-9. Scopus Indexed
20. G.Indulal , The distance spectrum and energy of the median and total graph of a cycle,Kragujevac J. Math. 40, No. 2, 298-305 (2016) Scopus Indexed

21. G. Indulal, R. Balakrishnan, The distance spectrum of Indu-Bala Product of graphs
AKCE International Journal of Graphs and Combinatorics 13 (2016) 230-234 Scopus
Indexed
22. G.Indulal , Mary George, The wiener index of some derived graphs , Journal of
Applied Mathematics and Applications, Volume 6, Number 1, February 2017, pp.
3-6(4)
23. G.Indulal , The wiener index of some graphs , Kerala Mathematical Bulletin, Dec 2017
24. G.Indulal , D- spectrum and D- energy of the complements of iterated line graphs of
regular graphs , Algebraic Structures and its Applications, Article 5, Volume 4, Issue 1,
Summer and Autumn 2017, Page 51-56
25. G.Indulal, Deena C Scaria, X.Liu , The distance spectrum of the subdivision vertex join
and subdivision edge join of two regular graphs, Discrete Math. Lett. 1 (2019) 36- 41 -
Scopus Indexed
26. Deena C Scaria, G.Indulal, The Distance Laplacian and Distance Signless Laplacian
Spectrum of the subdivision vertex join and subdivision edge join of two regular graphs,
Discrete Math. Algorithms and Applications. 1 (2019)1950053-1-11 – Scopus Indexed
27. Palathingal, J.J., Indulal, G., Lakshmanan, S.A. Spectrum of Gallai Graph of Some
Graphs. Indian J Pure Appl Math 51, 1829-1841 (2020) - Scopus Indexed
28. G. Indulal, Liju Alex, 3, Suleyman Ediz, The R-index of some graphs, Proceedings of
IAM, V.9, N.2, 2020, pp.119-125.
29. Deena C Scaria, Indulal G , The spectrum of some generalised graphs related to cycles,
Indian Journal of Pure and Applied mathematics 52, 274280 (2021) – Scopus Indexed
30. Liju Alex, G .Indulal , Some degree based topological indices of a generalised F sums of
graphs, Electronic Journal of Mathematical Analysis and Applications(2021), 91-111 -UGC
CARE

31. Jeepamol P, Indulal G, Aparna L, The spectrum of the Anti-Gallai Graphs of some graphs, Indian Journal of Pure and Applied mathematics , 52, 304-311 (2021) – Scopus Indexed
32. Jinu Mary Jameson , Gopalapilla Indulal, On the normalized (distance) Laplacian spectrum of linear dependence graph of a finite-dimensional vector space, Discrete Math. Lett. 5 (2021) 49-55 - Scopus Indexed
33. G Indulal, Liju Alex, I.Gutman , On Graphs preserving PI index upon edge removal. Journal of Math.Chem,59,(2021)1603-1609. - Scopus Indexed
34. Indulal Gopalapillai, Deena C Scaria, The Distance related spectra of some subdivision related graphs, Journal of Computer Science and Applied Mathematics Vol. 3,no.1, (2021), 23-36
35. Liju Alex, Indulal Gopalapillai, Wiener index of FHsums of graphs, Journal of Computer Science and Applied Mathematics, Vol. 3, no.2, (2021), 37-57
36. Liju Alex, Indulal Gopalapillai, On a conjecture on the edge mostar index of bicyclic graphs, Iranian Journal of Mathematical Chemistry, Volume 14, Issue 2, August 2023, Pages 97-108 - Scopus Indexed
37. Jiny Johny C J and Indulal Gopalapilla, Skew Spectrum of some graphs related to Petersen Graph, Palestine Journal of Mathematics, 12(2)(2023)246-253 - Scopus Indexed
38. Liju Alex, G. Indulal, ZAGREB INDICES OF A NEW SUM OF GRAPHS, URAL MATHEMATICAL JOURNAL, Vol9, No 1, 2023, 3-16 - Scopus Indexed
39. Liju Alex, G. Indulal, ZAGREB INDICES OF SOME CHEMICAL STRUCTURES USING NEW PRODUCTS OF GRAPHS, Journal of Hyperstructures 12 (2) (2023), 257-275 - Scopus Indexed

40. Liju Alex, G. Indulal, INVERSE PROBLEM FOR MOSTAR INDEX OF CHEMICAL TREES AND UNICYCLIC GRAPHS, Palestine Journal of Mathematics Vol 13(4)(2024) , 56–64 - Scopus Indexed
41. Deena C Scaria, Indulal G , The distance seidel spectrum of some graph operations, Journal of Hyper structures 13 (1) (2024), 15-32- Scopus Indexed
42. Liju Alex, G. Indulal Sharp bounds on additively weighted Mostar index of Cacti, Communications in Combinatorics and optimization (In Press) - Scopus Indexed
<https://doi.org/10.22049/cco.2024.28757.1702>
43. Liju Alex, John Joy, G. Indulal, Induced Dominating Sequence and ESD Graph, Proyecciones (Antofagasta) Vol. 43, No 4, pp. 947-964, August 2024 - Scopus Indexed.
44. Liju Alex, G. Indulal, John Joy, On the inverse Problem of some bond additive indices, Communications in Combinatorics and optimization (In Press) - Scopus Indexed
45. Liju Alex, G. Indulal, On some extremal results and bounds of additively weighted edge Mostar index, Iranian Journal of Mathematical Chemistry, Vol. 16, No. 1, 2025, pp. 51-64 – Scopus Indexed
46. Liju Alex, G. Indulal, Joyamol T baby. A Note on the additively weighted mostar index of graphs, Iranian Journal of Mathematical Chemistry, In Press – Scopus Indexed
47. Liju Alex, G. Indulal , Forgotten index of F^* sums of graphs, Cret.math.Inform, 34(2025), No1, 1-10
48. John Joy Mulloor, Liju Alex, G Indulal, and Deena C Scaria, Some Graph Parameters of Indu-Bala Product of Graphs, Journal of Hyper structures, In Press

Invited Lectures/Paper Presentations in Conferences

2024/1- Delivered an invited talk on ' Introduction to spectral theory of graphs' in the National research workshop in Graph Theory at BCM College, Kottayam on 23.5.24 sponsored by DST-SERB and KSCSTE.

2024/2. Delivering an invited talk on 'Elegance of Mathematics' at Mar Athanasius College, Kothamangalam on 19.8.24

2024/3. Delivered an invited talk on 'Mathematics-The silent architect of modern world' in the inaugural session of the foundation course in mathematics for higher secondary students at Bishop Moore College,Mavelikkara on 20.8.2024

2024/4. Delivered an invited talk on 'Spectral Characterisation of Graphs' in the International Conference on Graph Theory and its Applications - ICGTA 2024 at Christ Autonomous College, Irinjalakkuda on 5.10.2024.

Prior to 2024

1. Delivered an invited talk on ' Spectral Characterisation of Graphs' in the International Conference in REcent Advances in Graph Theory and Allied Areas ICRA GAA 2023 at St Aloysius College, Elthuruth, Thrisur on 03.02.2023

2. Delivered an invited talk on ' The significance of Mathematics' in the 16th Prof C Kochumman Memorial Lecture at Marthoma College, Thiruvalla on 07.03.2023

3. Delivered an invited talk on ' Graphs characterised by the spectrum ' in the Ambat vijayakumar endowment lecture at CUSAT on 05.08.2023

4. Delivered an invited talk on ' Linear Algebra in Graph Theory ' in NSLAA 2023 at Kodungallur Kunjikkuttan Thampuran Memorial Government College, Kodungallur on 03.11.2023

5. Delivered a lecture on 'Energy of Graphs' in the Prof N Dharmambal Memorial Lecture Series organised by the Department of Mathematics, St Theresas College,Eranakulam on 11.01.2022

6. Delivered a lecture on 'Interconnection between Linear Algebra and Graph Theory A Primer' in the Ramanujan Lecture Series organised by the Department of Mathematics, St Dominics College, Kanjirappalli on 27.2.2022.
7. Delivered a lecture on 'Applications of Graph Theory and Connections between Graph Theory and Linear Algebra' at Mar Baselios College of Science and Engineering, Thiruvananthapuram on 20.5.2022
8. Delivered an invited talk on 'Graph Characterisation by Spectrum' in the 18th Annual conference of Academy of Discrete Mathematics and Applications (ADMA) held at Vellalar College for Women, Erode on 10.6.2022
9. Delivered an invited talk on 'Fundamentals of Spectral Graph Theory' in the R Balakrishnan Endowment Lecture at Periyar University, Salem on 14.10.2022
10. Delivered an invited talk on 'Spectral Characterisation of Graphs' in the International Conference on Algebra and Discrete Mathematics at St Berchman's College in connection with its Centenary Celebrations on 14.12.2022
11. Delivered an invited talk on 'Graph Structure from Its Spectrum' in the National Workshop on Discrete Mathematics at Catholicate College, Pathanamthitta sponsored by Mahatma Gandhi University on 20.12.2022
12. Delivered an e-lecture on "Some elementary Problems posed by Srinivasa Ramanujan" in connection with the National Mathematics day at Christ College, Irinjalakkuda on 06.01.2021
13. Delivered an e-lecture on "The role of Mathematics behind Google search" in the seminar series organised by MES Kalladi College, Mannarkkad, Palghat on 11.09.2021
14. Delivered a lecture on 'Reflection on Art and Creative writing' organised by the PG Department of English, St Aloysius College, Edathua on 15.12.2021

15. Delivered a lecture on 'Basics of Spectral Graph Theory' in the Enrichment programme to PG students organised by the Department of Mathematics, Cochin University of Science and Technology on 22.12.2021
16. Delivered an invited talk " Equienergetic graphs " in the International Webinar on Graph Connections at BCM College,Kottayam on 08.08.2020
17. Delivered an invited lecture on " Applications of Graph Theory " in the National Seminar on 'Discrete Mathematics and its Applications' held at Assumption College, Changanachery on 10.01.2020
18. Delivered an invited lecture on " A Journey through Spectral Graph Theory " in the National Seminar on 'Graph Theory and its Applications' held at Government College, Chiturstur , Palghat sponsored by department of Collegiate Education, Government of Kerala on 24.01.2020
19. Delivered an e-lecture on " Spectral Graph Theory " in the Student -Teacher Enrichment programme (STEP) organised by the Department of Mathematics and Centre for Topology and Applications, Rajagiri School of Engineering and Technology on 30.09.2020
20. Delivered an e-lecture on " Basics of Spectral Graph Theory " in the CT John Memorial Research Lecture Series organised by Marthoma College,Thiruvalla on 05.10.2020
21. Delivered an e-lecture on " Rayleigh Quotient and some characterisations " in the CT John Memorial Research Lecture Series organised by Marthoma College, Thiruvalla on 17.10.2020
22. Delivered an e-lecture on " Distance Equienergetic Graphs " in the weekly Lecture Series organised by IIT Kharagpur on 23.10.2020
23. Delivered Prof.K.M.Joseph Endowment Lecture on " Mathematics in Real Life " conducted by the Department of mathematics of St Stephan's College, Uzhavoor on 01.02.2020

24. Delivered an e-lecture on " Applications of Mathematics " in connection with the inauguration of mathematics association St Pauls College, Kalamassery on 26.08.2020
25. Delivered an e-lecture on " Mathematics of Google Search " in connection with the Mathematics popularisation Lecture Series organised by S.V.R.N.S.S College, Vazhoor on 12.10.2020
26. Delivered an e-lecture on " Mathematics in practical life " in connection with the inauguration of mathematics association St Peters College, Kolenchery on 13.11.2020
27. Delivered an e-lecture on " The Legacy of Srinivasa Ramanujan " in connection with the National Mathematics day at B.C.M College, Kottayam on 22.12.2020
28. Delivered an e-lecture on " The life and Mathematics of Srinivasa Ramanujan " in connection with the National Mathematics day at St Marys College, Trichur on 30.12.2020
29. Delivered an invited lecture on " Some basic topics of spectral graph theory " in the KSCSTE sponsored National seminar on Algebra and Graph Theory - at St Berchmans College, Changancherry on 19.1.2019
30. Delivered an invited lecture on " Elementary Matrix theory useful to spectral graph theory Part I " in the Research workshop series in Graph Theory at Cochin University of Science and Technology on 11.5.2019
31. Delivered an invited lecture on " Elementary Matrix theory useful to spectral graph theory Part II " in the Research workshop series in Graph Theory at Cochin University of Science and Technology on 1.6.2019
32. Delivered an orientation lecture on " UGC Regulations 2018 and UGC Pay Fixation Procedures " in the State Level workshop conducted by the IQAC of St Pauls College, Kalamassery on 26.10.2019

33. Delivered an invited talk on " The distance spectrum of graphs " at the Fifth Indo-Taiwan International Conference on Discrete Mathematics ITCDM 2017 at Tamkang University, Taipei, Taiwan on 19.07.2017
34. Delivered an invited lecture on " The spectra of graphs and its applications" in the International seminar at St.Xaviers College, Aluva on 31.10.2017
35. Delivered an invited talk on " The distance spectrum of Graphs" in the International Conference on Discrete Mathematics - ICDM 2018 at Periyar University, Salem on 06.01.2018
36. Delivered an invited talk " The distance spectra of some families of graphs " in the International Conference on Discrete Mathematics - ICDM at National College,Trichy on 15.12.2018
37. Delivered an invited talk on " Spectral Graph Theory " in the National seminar at Bharathmatha College, Thrikkaakkara on 17.01.2018
38. Delivered an invited talk on " Algebraic Graph Theory " in the National seminar at B.C.M College, Kottayam on 24.01.2018
39. Delivered a lecture on " Basics in Spectral Graph Theory " in the National workshop on Algebraic Graph Theory at Central University, Pondichery on 06.03.2018
40. Delivered a lecture on " Spectrum of regular graphs " in the National workshop on Algebraic Graph Theory at Central University, Pondichery on 07.03.2018
41. Delivered a lecture on " Rayleigh Principle, Perron-Frobenius Theorem and Interlacing " in the National workshop on Algebraic Graph Theory at Central University, Pondichery on 08.03.2018
42. Delivered a lecture on " Indian Contribution to Mathematics " on the National Mathematical day at Marthomma College, Thiruvalla on 09.08.2018, sponsored by KSCSTE.

43. Delivered an invited lecture on " Linear Algebra in Graph Theory " in the National workshop on Discrete Mathematics - at Kerala Univeristy,Kariavattom Campus on 19.12.2018
44. Delivered a lecture on " Properties of symmetric Matrices " for a group of college teachers at St.Aloysius College, Edathua on 04.04.2018
45. Delivered a lecture on " Spectrum of some graphs " for a group of college teachers at St.Aloysius College, Edathua on 12.04.2018
46. Delivered a lecture on " Rayleigh Principle, Perron-Frobenius Theorem and Interlacing " for a group of college teachers at St.Aloysius College, Edathua on 8.05.2018
47. Delivered an invited talk on " Recent results on the Distance spectrum of Graphs " in the International Seminar Advances in Applied Probability,Graph Theory and Fuzzy Mathematics (ICAPGF-2014) At St.Peter's College Kolencherry on 13.1.2014.
48. Delivered an invited talk on " Applications of Graph Theory" in the UGC sponsored National Seminar on Graph Theory and Modelling At SB College Changanacherry on 26.9.2013.
49. Delivered an invited talk on " Graph theory and Group Theory" in the UGC Sponsored National seminar on Graph Theory and its Applications at St. Xavier's College for Women, Aluva on 7.8.2014
50. Delivered an invited talk on " Further possible research areas in Spectral Graph Theory" at the Second Indo-Taiwan International Conference on Discrete Mathematics at Amritha ViswaVidyalaya, Coimbatore on 20.9.2011
51. Delivered an invited talk on "Matrices and their spectra associated with graphs" in the International Conference on Graph theory at Christ Deemed University, Bangalore on 11.2.2011

52. Delivered an invited talk in the UGC sponsored National Seminar at St Thomas College, Kozhencherry on 13.8.2011
53. Delivered a lecture on "Spectra of Graphs" for the M.Sc and M.Phil students and Research Scholars of the Department of Mathematics, Bharatidasan University, Trichy on 15.4.2011
54. Delivered a talk on "The interesting side of Mathematics" at D.B College, Parumala while inaugurating the Mathematics Association on 19.11.2011
55. Delivered a talk on "Mathematics Treat it carefully" at S.D.College, Kanjirappilly while inaugurating the Mathematics Association on 25.3.2010
56. Delivered a talk on "Fallacies in Mathematics and their Treatment" at Assumption College, Changanacherry while inaugurating the Mathematics Association on 16.7.2010
57. Delivered an invited talk on "Interdisciplinary Applications of mathematics" in the regional seminar at St Aloysius College, Edathua on 15.11.2010
58. Delivered a talk on "Indian Contribution of mathematics" at TKM College, Nangiarkulangara while inaugurating the Mathematics Association on 20.7.2010
59. On Graphical Matrices and its Spectral Facts at M.E.S.College, Mannarkkad in the UGC sponsored National Seminar on 17 - 02 - 2009 .
60. On Spectra of Graphs at U.C.College, Aluva in the UGC sponsored National Seminar on 20-11 - 2009 .
61. Delivered a talk on 'Spectral graph theory' in the international seminar at Catholicate College,Pathanamthitta on 30 - 9 - 2007.
62. Delivered a talk on 'Mathematical Chemistry' in the National seminar sponsored by UGC at S B College, Changanacherry on 15 - 3 - 2008.

63. Delivered a talk on 'Spectral theory of distance matrices and some chemical applications' in the National seminar sponsored by UGC at St.Pauls College, Kalamasserry on 08 - 08 - 2008 .

Seminar/Workshops Organized

Sl. No.	Title of the Seminar/Workshop	Funding Agency	Amount	Date
1	Recent trends in Mathematics, Mathematical Biology,	UGC	80000	Feb 7-9 2009
2	National Seminar on Emerging Trends in Graph Theory and its Applications	UGC	150000	21-23 January 2015

Research Projects

Sl. No.	Title of the Project	Funding Agency	Amount	Period
1	Studies on the distance spectrum of graphs	UGC	80000	2009-11

Collaborators in Research Works

1. Ivan Gutman, Faculty of Science, University of Kragujevac, Serbia.
2. Dragan Stevanovic, University of Primorska, Koper, Slovenia.
3. R Balakrishnan , Bharathidasan University, Tiruchirappalli, India.
4. X Liu, Northwestern Polytechnical University, China
5. Suleyman Ediz, Faculty of Education, Van Yuzuncu YI University, Turkey

REFeree & REVIEW SERVICE

Referee for Discrete Mathematics, Linear Algebra and its Applications, Journal of Computational Mathematics, International Journal for inequalities, Applicable analysis and Discrete Mathematics, Indian Journal of Discrete Mathematics(IJDM), Applied Mathematical Letters, Discrete Applied Mathematics etc....

- Approved reviewer for the American Mathematical Society (AMS)
- Member of Kerala Mathematical Society
- Executive member, The Academy of Discrete Mathematics and Applications (ADMA) from 1.4.2022-31.3.2024

- Served as subject expert for the promotion of teachers in CMS College, Kottayam on 28.10.2017
- Served as subject expert for the promotion of teachers in MES College, Nedumkantam on 02.11.2017
- Served as subject expert for the promotion of teachers in Catholicate College, Pathanamthitta on 17.1.2018
- Member, PG Board of studies , M.G.University (Period over)
- Member, Academic Council, SB College, Changanachery (Period over)
- Member, Doctoral Committee, APJ Abdul Kalam Technological University, Kerala
- Subject expert in the inspection committee for new generation courses in Henry baker College, Melukav on 14.10.2020
- Served as subject expert for the promotion of teachers in Catholicate College, Pathanamthitta on 15.12.2020
- Subject expert in the interview to guest lecturers at Catholicate College, Pathanamthitta on 29.06.2021
- Served as subject expert for the promotion of teachers in NSS College, Vazhoor on 08.02.2022
- Served as subject expert, Pre-Phd presentation of Seena Varghese on 26.02.2022

Papers presented

1. Presented a paper entitled ‘Energies of cross product of graphs’ in the 20th Annual Conference of the Ramanujan Mathematical Society held at University of Calicut during 27 - 30 July 2005.
2. Presented a paper entitled “ Equi - energetic Self - complementary Graphs” at the Inter National Graph Theory workshop held at the Aveiro University, Portugal during April 2006.
3. My supervisor presented a paper entitled ‘Reciprocal Graphs’ at the International Congress of Mathematicians, ICM 2006 at Madrid, Spain during September 2006.
4. Presented a paper entitled ‘Some integral graphs’ in the poster session of the

International Conference in Discrete Mathematics held at IISc Bangalore during 15 - 18 December 2006.

5. My thesis “Studies on the spectrum and the energy of graphs” was presented at Simon Fraser University , Canada before an invited audience during April – May 2007

Radio Talks Given

1. On 'ganitham, saasthraraajnji'(Mathematics, the Queen of Sciences) ' broadcasted through All India Radio on March 1, 2017 through the Sasthralokam programme
2. On 'ganitham, nithyajeevithaththil'(Mathematics, in Practical life) ' broadcasted through All India Radio on June 26, 2017 through the Sasthralokam programme
3. On 'keralaththinte ganithasaasthrapaaramparyam'(The legacy of Kerala Mathematics) ' broadcasted through All India Radio on November 1, 2017 through the Sasthralokam programme
4. On ' The legacy of Kerala Mathematics' broadcasted through All India Radio on August 10,2018 through the Radioscope programme Nationwide.
5. On 'Srinavasa Ramanujan , athulyanaya ganithasasthraprathibha'(Srinivasa Ramanujan, The unparalleled Mathematical Genius) ' broadcasted through All India Radio on December 20 , 2018 through the vidyabhyasaramgam programme

6. On 'Niels Henric Abel' broadcasted through All India Radio on April 24 , 2019 through the sasthralokam programme
7. On 'Hypatia - The bravest Women mathematician' broadcasted through All India Radio on August 28 , 2019 through the sasthralokam programme
8. On 'vishaththilninnulla jeevanraksha oushadhangal' a radio script broadcasted on 29.01.2020 through the sasthralokam programme
9. On 'sasthram jayikkukathanne cheyyum' broadcasted through All India Radio on August 21 , 2020 through the sasthralokam programme
10. On 'Everiste Galois - ganithaththile nithyavismayam' broadcasted through All India Radio on October 23 , 2020 through the sasthralokam programme
11. On ' Bharatheeyaganithapaithrukam' broadcasted through All India Radio on March 15 , 2023 through the sasthralokam programme in connection with the International Mathematics Day