



# ST. ALOYSIUS COLLEGE EDATHUA

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"LET THY DIVINE LIGHT SHINE MIRACULOUSLY"

## Personal Details

Name	:	Dr. Deena C Scaria
Department	:	Mathematics
Designation	:	Assistant Professor of Mathematics
Educational Qualification	:	M.Sc., M.Phil., B.Ed., Ph.D.
Area of Specialisation	:	Graph Theory
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## Academic Identity

Employee ID	:	716880
Vidwan ID	:	<a href="#"><u>665919</u></a>
Orcid ID	:	<a href="#"><u>0009-0009-9123-805X</u></a>
Scopus ID	:	<a href="#"><u>57211095500</u></a>
Researcher ID	:	<a href="#"><u>PGF-0666-2026</u></a>
Google Scholar ID	:	<a href="#"><u>PRI0SC4AAAAJ</u></a>

## Research Parameters

Google scholar citations	:	33
H index	:	3
i10 index	:	2

## Education

Sl. No.	Degree	Institution/University	Year
1	Ph. D Mathematics	Mahatma Gandhi University, Kottayam	2025
2	National Eligibility Test	UGC	2010
3	M.Phil. Mathematics	Madurai Kamaraj University, Madurai	2006
4	State Eligibility Test	Government of Kerala	2000
5	B.Ed. Mathematics	Mahatma Gandhi University, Kottayam	2000
6	M.Sc. Mathematics	Kerala University, Thiruvananthapuram	1999
7	B.Sc. Mathematics	Kerala University, Thiruvananthapuram	1997
8	Pre – Degree	Kerala University, Thiruvananthapuram	1994
9	SSLC	State Board Kerala	1992

## Career Profile

Sl. No.	Institution/Organization	Designation	Period
1	St. Aloysius College, Edathua, Alappuzha	Assistant Professor	3.9.2012 – Till Date
2	Mohandas College of Engineering & Technology, Nedumangad, Thiruvananthapuram	Senior Lecturer	8.6.2005 -30.8.2012
3	Caarmel Engineering College, Ranni, Pathanamthitta	Lecturer	23.8.2002 -7.6.2005

## **Positions Held or Holding**

### **University-Level Responsibilities**

<b>Sl. No.</b>	<b>Position</b>	<b>Period</b>
1	Member, Board of Studies, Department of Basic Science & Humanities, St. Thomas College of Engineering & Technology, Chenganoor	2025 - 2026
2	Expert Committee Member, Question Bank development for the Signature Courses of the Third Semester MGU-UGP Honours Mathematics, Mahatma Gandhi University, Kottayam	2025 - 2026
3	Expert Committee Member, Question Bank preparation for the Third Semester MGU-UGP Honours Mathematics, Mahatma Gandhi University.	2025 - 2026
4	Expert Committee Member, MGU UG Honours Syllabus Revision & OBE Training, Mahatma Gandhi University, Kottayam	2023 - 2024
5	Coordinator, Question Bank Committee for Private Registration Postgraduate Programme in Mathematics, Mahatma Gandhi University, Kottayam	2023 - 2024
6	Senior Assistant Superintendent, University Examinations, Mahatma Gandhi University, Kottayam	2023 - 2024
7	Expert Committee Member, Question Bank Committee for Postgraduate Mathematics, Mahatma Gandhi University, Kottayam	2022 - 2023
8	Member, PG Board of Studies, Mahatma Gandhi University, Kottayam	2021 onwards
9	Coordinator, Ten-Day Short-Term Course on E-Teaching with Learning Management Systems, organized by the All Kerala Private College Teachers' Association	2020 - 2021
10	Expert Committee Member, Syllabus Revision Committee in Mathematics, Mahatma Gandhi University, Kottayam	2016 - 2017

## College-Level Responsibilities

Sl. No.	Position	Period
1	Coordinator, Internal Examinations	2025 onwards
2	Assistant Returning Officer for College Union Election	2024 - 2025
3	College Union Advisor	2024 - 2025
4	Editor, Mathematics Department News Letter (MASA)	2023 - 2025
5	Coordinator, Scholarships & Endowments	2015 onwards
6	Member, IQAC	2023 onwards
7	Member, Attendance Monitoring Committee	2023 onwards
8	Member, Discipline Committee	2023 onwards
9	Member, Grievance & Redressal Committee	2015 onwards
10	Member, Purchase Committee	2023 onwards
11	Member, Hostel Committee	2023 onwards
12	Member, Grievance & Redressal Committee	2023 onwards
13	Staff Editor, Mathematics Department Manuscript Magazine	2017 onwards
14	Criterion Head, NAAC Accreditation,	2020 onwards
15	Coordinator, Postgraduate Colloquium	2023 - 2024
16	Coordinator, Mathematics Popularization Programme (MATHSPARK)	2023 - 2024
17	Coordinator, Mathematics Popularization Programme (SMILE)	2023 - 2024
18	Staff Editor, <i>E-Ganitham</i> (Mathematics Department E-Magazine)	2023 - 2025
19	Coordinator, DOMSAC International Lecture Series	2020 - 2021
20	Coordinator, Young Innovative Programme	2019 - 2022
21	Coordinator, Purchase Committee	2017 - 2021
22	Coordinator, Scholar Support Programme	2015- 2019

## External Academic Responsibilities

Sl. No.	Position	Period
1	Official for the Sub-District Mathematics Fair	2025 - 2026
2	Subject Expert for appointing Guest Lecturers in the Department of Mathematics, Mar Thoma College, Thiruvalla	2023 - 2025
3	Board Member, Interview Board for selection to the post of H.S.A (Mathematics), Kerala Public Service Commission	2017 - 2018

## Research Publications

Sl. No.	Publication Details
1	Deena C Scaria, Indulal G, Jinu Mary Jameson, Complementary Distance Seidel Equi energetic Graphs, <i>Journal of Discrete Mathematics and Its Applications</i> (Accepted)
2	Deena C Scaria, Democracy, Constitution and Social Justice: Contemporary Challenges and Future Directions Sponsored by Parliamentary Affairs, Govt. of Kerala, Volume 1, (2025) 425-430.
3	Jharna Kalita, Somnath Paul, Indulal G, Deena C Scaria, A Note on the Maximum $A_\alpha$ Spectral Radius of Some Classes of Graphs, <i>Communications in Combinatorics and Optimization</i> (2025) 1- 9.
4	D. Scaria, J. J. Mulloor, L. Alex and G. Indulal, A Note on Some Graph Parameters and Graph Operations, <i>Open Journal of Discrete Applied Mathematics</i> , 08(2) (2025) 32-44.
5	J. J. Mulloor, L. Alex, G. Indulal and D. Scaria, Some Graph Parameters of Indu-Bala Product of Graphs, <i>Journal of Hyperstructures</i> , 14(1) (2025) 57-67.
6	Deena C Scaria, Indulal G, The Distance Seidel Spectrum of Some Graph Operations, <i>Journal of Hyper structures</i> 13(1) (2024), 15 – 32.
7	Deena C Scaria, G Indulal, The Distance Seidel Spectrum of Subdividing the Edges of a Hamiltonian Cycle in $K_p$ , Proceedings of International Conference Mathematical Challenges and Novel Applications, October 2024
8	Indulal Gopalapillai, Deena C Scaria, The Distance Related Spectra of Some Subdivision Related Graphs, <i>Journal of Computer Science and Applied Mathematics</i> , 3(1)(2021), 23-36.
9	Deena C Scaria, Indulal G, The Spectrum of Some Generalised Graphs Related to Cycles, <i>Indian Journal of Pure and Applied mathematics</i> 52 (2021) 274280.
10	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, <i>Discrete Math. Algorithms and Applications</i> 11(5), (2019) 1950053.
11	G.Indulal, Deena C Scaria, X.Liu, The Distance Spectrum of the Subdivision Vertex Join and Subdivision Edge Join of two Regular Graphs, <i>Discrete Math. Lett.</i> 1 (2019) 36- 41.

## Paper Presentations in Conferences

Sl. No.	Conference & Presentation Details
1	Presented a paper entitled “Distance Spectrum of Subdividing the edges of a Hamiltonian cycle in $K_p$ ” in the International Conference on Graph Theory and its Applications (ICGTA 2023) organized by Department of Mathematics, Christ (Deemed to be University) Bangalore during 30 November - 02 December, 2023
2	Presented a paper entitled “Distance Seidel Spectrum of Subdividing the edges of a Hamiltonian cycle in $K_p$ ” in the International Conference on Mathematical Challenges and Novel Applications (ICOMACNA – 2024) organized by Department of Mathematics, Ayya Nadar Janaki Ammal College, Sivakasi, Ramco Institute of Technology, Rajapalayam and The Standard Fireworks Rajaratnam College for Women, Sivakasi during 21 March - 22 March, 2024
3	Presented a paper entitled “Complementary Distance Seidel Spectrum of Complement of Line Graphs of Regular Graphs” in the National Conference on Graph Theory and Allied Topics (NCGTAT 2024) organized by Department of Studies in Mathematics, University of Mysore during 23 October - 24 October, 2024.
4	Presented a paper entitled “Power Spectral Density of Real Processes and Its Properties” in the National Conference on Emerging Trends in Graph Theory and its Applications organized by Department of Mathematics, St. Aloysius College, Edathua during 21 January -23 January 2015.

## Resource Person

1. Lecture on “Mathematics : The Soul of Life” at Govt. Vocational Higher Secondary School, Aryad (14, August, 2021)

## Refresher Course

1. Online Refresher Course in Graph Theory & Cryptography, organized by MMTTC at IIT Kancheepuram, Chennai, from 19 March 2025 to 31 March 2025.
2. Refresher Course in Mathematics, organized by the HRDC, University of Kerala, Thiruvananthapuram, from 17 September to 30 September 2019.
3. Refresher Course in Mathematical Sciences, organized by the HRDC, University of Kerala, Thiruvananthapuram, from 4 August to 24 August 2015.

## NPTEL & SWAYAM Courses

Course	Educational Institution	Year	No. of credits	% obtained
Introduction to Abstract and Linear Algebra	IIT Kharagpur	2025	2	76
Basic Real Analysis	IIT Palakad	2020	3	65
Linear Algebra	IIT Madras	2020	3	72

## **Faculty Development Programme (FDP)**

1. FDP on Innovative Teaching with AI, ICT Tools & Academic Writing organized by St. Aloysius College, Edathua, 04 – 06 December 2025.
2. FDP on NEP 2020 Orientation & Sensitization (MM-TTP), UGC-MMTTC University of Kerala, Kariavattom, 01–12 December 2025.
3. FDP on Emerging Developments and Applications of Mathematics organized by Indian Institute of Teacher Education, 17 – 22 November 2025.
4. Eight-week FDP on Introduction to Abstract and Linear Algebra organized by IIT Kharagpur and NPTEL - AICTE (Jul-Sept 2025).
5. FDP on NEP 2020 Orientation & Sensitization (MM-TTP), UGC-MMTTC University of Kerala, Kariavattom, 18–28 November 2024.
6. FDP on LMS (Moodle) & Course Design, Kerala State Higher Education Council, 09–13 August 2021.
7. FDP on Managing Online Classes & Co-Creating MOOCs (Level 2), Ministry of Education – PMMMNMTT, 02–16 June 2021.
8. Twelve-week FDP on Real Analysis I organized by IIT Palakad and NPTEL - AICTE (Sept- Dec 2020).
9. FDP on Towards a Digital Era of Teaching & Learning, UGC-HRDC University of Kerala & D.B. College Sasthamcotta, 12–18 August 2020.
10. FDP on Pedagogical & E-Learning Tools for Teaching, Sanatana Dharma College Alappuzha & KSHEC, 04–10 August 2020.
11. FDP on Implementation of ICT in Teaching, School of Legal Studies CUSAT & KSHEC, 18–24 July 2020.
12. FDP on SCI LAB – An Open-Source Substitute for MATLAB, JNTUH College of Engineering Sultanpur & IIT Bombay (Spoken Tutorial), 25–30 May 2020.
13. Twelve-week FDP on Linear Algebra organized by IIT Madras and NPTEL - AICTE (Jan- Apr 2020).

## **Workshops/ Conferences/Seminars/Webinars**

1. Workshop on Empowering Educators – Teachers’ Training Courses, IQAC, Mar Thoma College, Tiruvalla, 27 Feb 2025.
2. National Conference on Graph Theory & Allied Topics (NCGTAT 2024), University of Mysore, 23–24 Oct 2024.
3. National Research Workshop on Graph Theory, BCM College, Kottayam, 23–25 May 2024.
4. Research Colloquium, Department of Mathematics, Mar Thoma College, Tiruvala, 25 May 2024.
5. International Conference on Mathematical Challenges & Novel Applications (ICOMACNA 2024), ANJAC, RIT & SFRC Sivakasi, 21–22 Mar 2024.
6. Workshop on Recent Trends in Graph Theory, Department of Mathematics, CUSAT, 4–5 Aug 2023.
7. Workshop on AI Empowered – Enhancing Teaching, Research & Academic Work in Higher Education, IQAC St. Aloysius College Edathua, 5 Aug 2023.
8. International Conference on Graph Theory & Its Applications (ICGTA 2023), Christ University, Bangalore, 30 Nov – 2 Dec 2023.
9. Workshop on MGU UG Honours Syllabus Revision & OBE Training, MG University, 27 Nov – 1 Dec 2023.
10. International Lecture Series on Decision Making Using Intuitionistic Fuzzy Set Theory, St. Aloysius College, 12 May 2021.

11. International Lecture Series on Stone–Weierstrass Theorem, St. Aloysius College, 26 Mar 2021.
12. International Lecture Series on Graph & Interconnection Networks, St. Aloysius College, 27 Feb 2021.
13. International Lecture Series: Applications of Graph Theory in Day-to-Day Life, St. Aloysius College, 27 Jan 2021.
14. International Lecture Series on Srinivasa Ramanujan – His Life and Works, St. Aloysius College, 29 Dec 2020.
15. Regional Workshop on Research Methodology, Catholicate College, Pathanamthitta, 14 Dec 2020.
16. Online Research Lecture Series on Spectral Graph Theory, Mar Thoma College Tiruvalla, 5 Oct 2020.
17. National Webinar Series on Gender Bias & Gender Equality, St. Aloysius College Edathua, 17–18 Sep 2020.
18. Webinar on Some Topics in Functional Analysis, St. Aloysius College Edathua, 14 Sep 2020.
19. Webinar on Permutation Group, St. Aloysius College Edathua, 10 Sep 2020.
20. National Webinar on The Curious Case of Cyber Security, St. Aloysius College Edathua, 22 Aug 2020.
21. Online National Lecture Series on Graph Theory & Applications, Mar Thoma College Tiruvalla & KMA, 19–21 Aug 2020.
22. Six-Day Online Workshop on Programming Essentials for Mathematics using Python, CHRIST University, 9–14 Aug 2020.
23. International Webinar on Special Functions & Discrete Mathematics, University of Kerala, 2–5 Aug 2020.
24. National Webinar on Modelling the Invisible Mathematics, St. Aloysius College Edathua, 25 Jul 2020.
25. National Webinar on Number Theory & Cryptography, 3 Jul 2020.
26. International Webinar on Below Sea-Level Farming & Water Resource Management, 5 Jun 2020.
27. Webinar on Graphs from Commutative Rings, Presidency College (A), Chennai, 10 Jun 2020.
28. Short-Term Course in E-Teaching with LMS, AKPCTA, June 2020.
29. Webinar on A Tribute to an Euler's Spoiler, Aquinas College, Cochin, 23 May 2020.
30. Webinar on NAAC Accreditation for Autonomous/Affiliated Colleges, St. Thomas College Thrissur, 22 May 2020.
31. Two-Day International Webinar on Recent Research Topics in Graph Theory, MES Mampad College, 20–21 May 2020.
32. International Webinar on Contactless Teaching & Learning Pedagogy, St. Xavier's College for Women, Aluva, 19 May 2020.
33. Webinar on Outcome Based Education in NAAC Perspective, St. Aloysius College Edathua, 9 May 2020.
34. Young Innovators' Facilitators Workshop on Design for Kerala, Kerala Development & Strategic Council, 5–6 Dec 2019.
35. National Seminar on Analysis & Number Theory, Govt College for Women, Trivandrum, 28–29 Oct 2019.
36. SSP Coordinators' Workshop, Loyola College, Trivandrum, 14 Jun 2019.
37. Teacher's Enrichment Workshop on Measure & Integration, Mar Thoma College Tiruvalla, 8–13 Apr 2019.
38. SSP Coordinator Training Programme, DCE Kerala, 12 Sep 2018.
39. National Seminar on Advancements in Graph Theory, BCM College Kottayam, 23–24 Feb 2018.
40. Workshop on Algebraic Graph Theory, NIT Karnataka, 25–30 Jan 2018.
41. One-Day Lecture on Linear Algebra, Rajagiri School of Engineering & Technology, 18 Nov 2017.
42. National Seminar on Discrete Mathematics & Computational Statistics, Deva Matha College Kuravilangad, 16–18 Aug 2017.
43. Workshop on Restructuring UG Mathematics Curriculum, MG University, 12 Apr 2017.
44. Academic Seminar on Higher Education in Kerala, AKPCTA, 24 Mar 2017.
45. Workshop on LaTeX, Govt. College Chavara, 15–16 Dec 2016.
46. Residential SSP Coordinators' Workshop, Loyola College of Social Sciences TVM, 24–25 Oct 2016.
47. SSP Coordinators' Workshop, St. Teresa's College, Ernakulam, 4 Aug 2016.
48. National Seminar on Complex Analysis, Govt College for Women, Trivandrum, 1–3 Feb 2016.
49. SSP Coordinators' Workshop, CMS College Kottayam, 27 Jan 2016.

50. National Seminar on Analysis, Topology & Applications, SD College Alappuzha, 2–4 Dec 2015.
51. National Seminar on Algebra & Discrete Mathematics, St. Gregorios College Kottarakara, 8–9 Oct 2015.
52. National Seminar on Emerging Trends in Graph Theory, St. Aloysius College Edathua, 21–23 Jan 2015.
53. National Seminar on Recent Trends in Mathematics, NSS Hindu College Changanacherry, 23–24 Oct 2014.
54. State-Level Workshop on Foundations of Mathematics, DB Pampa College Parumala, 14 Feb 2014.
55. Two-Day FDP, Newman College Thodupuzha, 17–18 May 2013.

