

Name : **Dr. A. Chellaram Malaravan**

Designation : **Associate Professor & UG Head**

Department : **Mathematics**

Date of Joining : **12 September 2007 (26 August 2003)**

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**Educational Qualification:**

Degree/	Subject	College / University/ Institute & Place	Year Completed
Ph.D.	Mathematics	MKU, Madurai, Tamilnadu	2022
M.Phil	Mathematics	MKU(DDE), Madurai	2007
M.Sc.,	Mathematics	The American College, Madurai, Tamilnadu	2002
B.Sc.,	Mathematics	The American College, Madurai, Tamilnadu	2000
Hr.Sec.,		PNU APT Dorairaj Hr. Sec. School, Madurai	1997
SSLC		Nehru Vidhya Salai High School, Madurai	1995
<b>CSIR-NET(JRF)</b>	Mathematics	MHRD	2004

**Specialisation in Teaching:** Graph Theory, Combinatorics, Number Theory

**Specialisation in Research:** Graph Theory, Combinatorics

**Research Interests:** Graph Theory

**Administrative /Academic Position/s (held / currently holding):**

Positions held / currently holding	Year
NSS Programme officer(Unit -3)	2010-14
Faculty Assistant(SLP)	2009-11
Elected Senatus Member (2014-15)	2016-17
Department admission committee Member	2003- till date
Athletic Committee member	2004-16
Anniversary committee member	2017 till date

## Membership in Professional Bodies:

1. Advisory Committee Member of the National Service Scheme at Thassim Beevi Kader College For Women, Kilakarai – 623517, Ramnad District, TN.
2. Board of Studies Member in National Service Scheme, 2014-2015, S. Vellaichamy Nadar College, Madurai, TN.
3. Elected Senatus Member (2014-15), The American College, Madurai-2
4. Board of Studies Member in Mathematics, 2017-18, Fatima College, Madurai-625018.
5. Member, Nov 2019 EOS Question paper Scrutiny Board, GTN College, Dindigul, Tamilnadu.
6. Mentor, YSSP 2022, The American College
7. Board of Studies Member in Mathematics (UG), Saraswathi Narayanan College, Madurai-22 (TN), for the academic year 2022-23.
8. Board of Studies Member in Mathematics (UG), Saraswathi Narayanan College, Madurai-22 (TN), for the academic year 2023-24.
9. External examiner in summative examination work (Valuation of project & Viva Voce) at Department of Mathematics, Lady Doak College, Madurai-2 on 20-04-2023.
10. Board of studies member for Saraswathi Narayanan College, Perungudi, Madurai-22 for the Academic Year 2023-24
11. Board of Studies Member in Mathematics, EMG Yadava Women's College, Madurai-14, for the academic year 2024-25.
12. Board of Studies Member in Mathematics, Saraswathi Narayanan College, Perungudi, Madurai-22 for the Academic Year 2023-24
13. A reviewer "Basic Mathematics", a book for first year first semester Diploma Programmes of all the streams of polytechnic colleges in Tamilnadu State foray 2023-24
14. Subject Expert for BSc & MSc (Mathematics) Programme to scrutinize the new OBE curriculum for the AY 2024-25 on 04-04-2024 at GTN Arts College, Dindigul
- 15. A reviewer "Applied Mathematics I & Applied Mathematics II", books for first year second semester Diploma Programmes of all the streams of polytechnic colleges in Tamilnadu State from the academic year 2024.**
16. Board of Studies Member in Mathematics, EMG Yadava Women's College, Madurai-14 for the academic year 2024-25. (05-06-2024)
17. A member, Research Advisory Committee (Doctoral Committee) Constituted for research scholar Mr.S.Lenin (MKU23PFOS10994), PG & Research Dept. in Mathematics, Saraswathi Narayanan College, Perungudi, Madurai-22

**Seminars/conference/Workshop/ Lecture Series Attended:**

State Level - 02; National Level - 09; International Level-02; Workshop - 03;  
Lecture Series - 01 Short term course - 01

1. International Lecture Series on Algebra and its Applications, on 26<sup>th</sup> - 28<sup>th</sup> October 2007, held at Thiyagarajar college of Engineering, Mannar Thirumalai Nayakar College, and Saraswathi Narayanan College, Madurai.
2. State Level Seminar on "Distance and Domination in Graphs", on 25<sup>th</sup> March 2008, Conducted by the Department of Mathematics The American College, Maduri.
3. UGC(SERO) sponsored Two day national seminar on "Discrete Mathematics and Applications", on 18<sup>th</sup> & 19<sup>th</sup> March 2009, organized by the department of Mathematics, Ayya Nadar Janaki Ammal College, Sivakasi.
4. UGC sponsored "National conference on Labelings and Decompositions of Graphs", on 29 & 30, 2013, organized by Department of Mathematics, The Madura College, Madurai.
5. UGC sponsored National level seminar on "Applications in fuzzy mathematics and fractal geometry" on 21<sup>st</sup> February, 2014 at The American College.
6. RMS & ADMA sponsored "Workshop on Graph Theory and Its Applications", on 27 - 28, November 2014, organized by Department of Mathematics, The Madura College, Madurai.
7. NBHM & UGC sponsored "National conference on Recent Developments in Coloring, Domination and Distinguishing Codes in Graphs", during 16 - 18, August 2015, organized by Government Arts College, Melur, Madurai-625106.
8. Special Lecture on "Should we discard Lebesgue integral? - a review of Integration" conducted by the Department of Mathematics, The American college, Madurai on 16<sup>th</sup> December 2015.
9. NBHM sponsored Two day national seminar on some recent research directions in graph theory on 09<sup>th</sup> & 10<sup>th</sup> March 2017, Ayya Nadar Janaki Ammal College, Sivakasi.
10. NBHM sponsored ADMA Pre-Conference school on Graph Algorithms during 05-07 June 2017, organized by ADMA and SSN college of Engineering, Chennai.
11. 13<sup>th</sup> Annual ADMA Conference & Graph Theory Day-XIII during 08-10 June 2017, organized by ADMA and SSN college of Engineering, Chennai.

12. National conference on “Modern Mathematics & its Applications”, on 22-23 January 2018, organized by Department of Mathematics, The American College, Madurai-2
13. International Conference on Applied and Computational Mathematics, 10<sup>th</sup> July 2018, organized by Department of Mathematics, Erode Arts and Science College, Erode 638 009. Two Days International Virtual
14. International conference on Graph Theory and its applications, 20 & 21 Nov 2019, organized by the department of Mathematics, SSN college of Engineering, Chennai.
15. Workshop on “Innovative Resources and IPR in Research” held on 08th - 09th October 2021 organized by the PG & Research Department of Mathematics, The American College (Autonomous), Madurai-625002, Tamil Nadu, India
16. Five days National Workshop on MATLAB and LaTeX for beginners, 04 - 08 April 2022, organized by the department of Mathematics, National Institute of Technology, Tiruchirappalli.
17. National Conference on Discrete Mathematics and its Applications- NCDMA’22, 15&16 July 2022, organized by Department of Mathematics, Velammal College of Engineering and Technology in association with Dr.V.S. Swaminathan Endowment
18. Six-Day Short-Term Course on “Data Science Using Python”, 5 - 10 June 2023, organized by Department of Computer Science and Engineering and Center of Computer Vision and Machine Learning, Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai-600127

### **Publications/Presentations:**

#### **Articles Published in International Journals: 04**

1. A. Chellaram Malaravan, A study on center of a graph complement, *Discrete Math. Algorithm Appl.* 7(04) (2015), 1550046.
2. A. Chellaram Malaravan, A. Wilson Baskar, A note on graph and its complement with specified properties: Radius, diameter, center, and periphery, *Discrete Math. Algorithm Appl.* 11(2) (2019), 1950021.
3. A. Chellaram Malaravan, A. Wilson Baskar, A study on distance in graph complement, *Discrete Math. Algorithm Appl.* 12(3) (2020), 2050045.
4. A. Chellaram Malaravan, A. Wilson Baskar, Both a graph and its complement are self-centered with identical radius, *TWMS J. App. and Eng. Math.* Vol 11 (Special Issue) (2021) 240-247.

### Conference / Seminar Presentations: 03

1. "Graph and its complement have common properties: Radius and Diameter", in the 13<sup>th</sup> Annual ADMA Conference during 08-10 June 2017, organized by ADMA and SSN college of Engineering, Chennai.
2. "On the equation  $G[C(G)] = \bar{G}[C(\bar{G})] = K_n$ ", International Conference on Applied and Computational Mathematics, 10<sup>th</sup> July 2018, organized by Department of Mathematics, Erode Arts and Science College, Erode 638 009.
3. "On both the graph and its complement are self-centered with identical radius", International conference on Graph Theory and its applications, 20 & 21 Nov 2019, organized by the department of Mathematics, SSN college of Engineering, Chennai.

### Lectures / Invited Talks : 22

1. Delivered a talk on "Zero" on the occasion of Association meeting of Mathematics department PMT college, Usilampatty, on 27<sup>th</sup> March 2014.
2. Delivered a talk on " Indian Mathematician", on 12<sup>th</sup> August 2015 at Fatima College, Madurai.
3. Quiz Master, Quiz Programme for the under graduate students of Mathematics of cluster colleges in Virudunagar district on 17<sup>th</sup> February, 2017, conducted by Rajapalayam Rajus' College, Rajapalayam.
4. Resource person, RMSA(RASHTRIYA MADHYAMIK SHIKSHA ABHIYAN) teacher training for IX and X Government school teachers held at Annai Fatima College, Thirumangalam on 19<sup>th</sup> June 2017 organized by CEO, Madurai-2.
5. Delivered a talk on "Who are we in the world of Mathematics?" on the occasion of UG&PG Mathematics association inauguration, Thiyagarajar College, Madurai on 10-10-2017.
6. Delivered a guest lecture on "Introduction to Sequences", Department of Mathematics, Madurai Sivakasi Nadar's Pioneer Meenakshi Women's College, Poovanthi-630611, on December 29<sup>th</sup> 2017.
7. Chief Guest on "ALGANA - 18" and delivered a talk on "Higher Studies in Mathematics", organized by Department of Mathematics, S. Vellaichamy Nadar College, Madurai-625019, under UGC autonomous grant on February 7<sup>th</sup> 2018.

8. Delivered a talk on "Terminologies in Mathematics" on the occasion of UG & PG (SF) Mathematics association inauguration, Fatima College, Madurai on 25<sup>th</sup> July, 2018.
9. Delivered a special lecture on "Terminologies" on the occasion of M.Phil. Mathematics association inauguration, V.V.Vanniaperumal College for women, Virudhunagar on 16<sup>th</sup> October 2018.
10. Delivered a special lecture on "Axioms" on the occasion of valediction for PIO-MATHS'18 activities, Madurai Sivakasi Nadar's Pioneer Meenakshi Women's College, Poovanthi-630611, on February 18<sup>th</sup> 2019.
11. Delivered a Guest Lecture on the topic "Theory of Equations" in the Refresher Course for Govt. PG Teachers of Madurai and Melur Education district on 19-06-2019 at Sethupathi Hr Sec School, conducted by District Institute of Education and Training (DIET), T. Kallupatti, Madurai District.
12. Delivered a Guest Lecture on the topic "Theory of Equations" in the Refresher Course for Govt. PG Teachers of Usilampatty and Kallupatty Education district on 20-06-2019 at TVS Hr Sec School, conducted by District Institute of Education and Training (DIET), T. Kallupatti, Madurai District.
13. Acted as Mentor in the Young Scientist Programme (YSSP), catalyzed and supported by Tamilnadu State Council for Science and Technology, conducted at The American College, Madurai during May 20 to June 2022.
14. Acted as Chairperson at the National Conference on Discrete Mathematics and its Applications-NCDMA'22, 15&16 July 2022, organized by Department of Mathematics, Velammal College of Engineering and Technology in association with Dr.V.S.Swaminathan Endowment,
15. Delivered a talk on the topic "Distance in Complement of a graph" in National Seminar on Discrete Mathematics under DPT Star College Scheme organized by the department of Mathematics (Aided), V.V.Vanniaperumal College for Women, Virudhunagar on 14 October 2022.
16. Delivered a guest lecture "History of Indian Number Systems" on the occasion of inaugural function of Mathematics Association, Velammal College of Engineering and Technology, Madurai, Tamilnadu, on 19 October 2022.
17. Delivered a guest lecture "An Overview - Continuity and Discontinuity on Metric Spaces", on the occasion of UG(SF) Mathematics Association Activity, Fatima College, Madurai-625 018, on October 27, 2022.
18. Delivered a guest lecture on "Mathematical Induction: A proof technique" at Department of Mathematics, Noble college of arts and science for women, Palavanatham, virudhunagar-626004

19. Delivered a special lecture on “significance of Pi in Mathematics” during Pi Day celebration at Department of Mathematics, Arul Anandar College, Karumathur-625514 on March 14, 2023.
20. Delivered the Inaugural Address in the Intercollegiate Meet “Mathematics Carnival 2023” organised by the Department of Mathematics, Lady Doak College, Madurai-625002, on March 24, 2023.
21. Delivered a talk on “Domination number of double vertex graph of a path” on the occasion of inauguration of Research Oriented Lecture Series (ROLS) organized by Department of Mathematics, Thiyagarajar College, Madurai on July 12, 2024.
22. Delivered the invited lecture on “Mathematical Terminologies & A Glimpse on Continuity” on 12.12.2024 in a five day Winter Training on Algebra and Analysis” organized by Department of Mathematics under DPT star college scheme funded Programme at GTN Arts College, Dindigul from 09th December 2024 to 13th December 2024.