

## **STAFF PROFILE**



**Name** : Dr. P. Palanikumar  
**Designation** : Assistant Professor  
**Department** : Mathematics  
**Date of Joining** : 14.07.2021  
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### **Educational Qualification:**

<b>Degree</b>	<b>Subject</b>	<b>College / University &amp; Place</b>	<b>Year Completed</b>
B.Sc	Mathematics	The Madura College, Madurai	2008
M.Sc	Mathematics	The Madura College, Madurai	2010
M.Phil	Mathematics	Thiagarajar College, Madurai	2011
Ph.D	Mathematics	Madurai Kamaraj University, Madurai	2021

**Specialisation in Teaching** : Graph Theory, Analysis and Algebra

**Specialisation in Research** : Graph Theory

**Research Interests** : Graph Theory

**Other Work Experience** :

<b>Designation</b>	<b>Institution / Company</b>	<b>Year</b>
Assistant Professor	Thiagarajar College, Madurai	2011 – 2013
Assistant Professor	Mannar Thirumalai Naicker College, Madurai	2013 – 2020

## Research Publications:

Title of the Paper / Book Chapter / Book	Name of the Journal / Publisher (with month, year)	UGC care list / Web of Science / SCOPUS / PubMed	DOI Link	ISSN/ISBN
Weighted dom-chromatic number of Type-II weighted paths	International Journal of Mathematics Trends and Technology (IJMTT) – May 2020	UGC Care list	<a href="https://doi.org/10.14445/22315373/IJMTT-V66I5P529">https://doi.org/10.14445/22315373/IJMTT-V66I5P529</a>	ISSN: 2231-5373
Weighted dom-chromatic number of Type-I weighted complete caterpillars	International Journal of Mathematics Trends and Technology (IJMTT) – May 2020	UGC Care list	<a href="https://doi.org/10.14445/22315373/IJMTT-V66I5P527">https://doi.org/10.14445/22315373/IJMTT-V66I5P527</a>	ISSN: 2231-5373
Weighted dom-chromatic number of some classes of Type-I weighted caterpillars	International Journal of Mathematics Trends and Technology (IJMTT) – May 2020	UGC Care list	<a href="http://dx.doi.org/10.14445/22315373/IJMTT-V66I5P525">http://dx.doi.org/10.14445/22315373/IJMTT-V66I5P525</a>	ISSN: 2231-5373
Open Support of a Graph under Multiplication	International Journal of Mathematics Trends and Technology (IJMTT) – Volume 65 Issue 5 - May 2019	UGC Care list	<a href="https://doi.org/10.14445/22315373/IJMTT-V65I5P521">https://doi.org/10.14445/22315373/IJMTT-V65I5P521</a>	ISSN: 2231-5373
Closed Support of a	International Journal of	UGC Care list	<a href="https://doi.org/10.14445/22315373/IJMTT-V65I5P519">https://doi.org/10.14445/22315373/IJMTT-V65I5P519</a>	ISSN: 2231-5373

Graph under Addition II	Mathematics Trends and Technology (IJMTT) – Volume 65 Issue 5 - May 2019			
Closed Support of a Graph under Multiplication	International Journal of Mathematics Trends and Technology (IJMTT) Volume 65 Issue 5 - May 2019	UGC Care list	<a href="https://doi.org/10.14445/22315373/IJMTT-V65I5P520">https://doi.org/10.14445/22315373/IJMTT-V65I5P520</a>	ISSN: 2231-5373

### Conference / Seminar Presentations:

- Participated in the National Conference on “ **PRESENT SCENARIO IN GRAPH THEORY**”( **PSGT-2016**) held at PG Department of Mathematics and Research Centre, Mannar Thirumalai Naicker College, Madurai on 16<sup>th</sup> December 2016.
- An oral presentation of a paper entitled “ **Changing and Unchanging Properties of the Neighborhood Connected Domination number of a Graph**” has been done in the two day International conference on **ALGEBRA AND DISCRETE MATHEMATICS – ICADM 2018** held at Madurai Kamaraj University, Madurai during January 08 – 10, 2018.
- An oral presentation of a paper entitled “ **Graph Theory in Computer Programming**” has been done in the two day National conference on **Recent Trends in Informatics – NCRTI 2018** organized by Alagappa Institute of Skill Development, Alagappa University, Karaikudi held on 19<sup>th</sup> & 20<sup>th</sup> March, 2018.
- An oral presentation of a paper entitled “ **Weighted Dom-Chromatic Number of a Tree**” has been done in the three day International conference on **Advances in Pure & Applied Mathematics 2018** held at School of Mathematics, Madurai Kamaraj University, Madurai during September 06 – 08, 2018.
- An oral presentation of a paper entitled “**Degree Divisor Graph**”.has been done in International Conference on “Sustainable Development” **KALASALINGAM GLOBAL CONFERENCE KGC – 2019**) held at Kalasalingam Academy of Research and Education (Deemed to be University), Krishnankoil, Tamil Nadu, India during December 18<sup>th</sup> – 20<sup>th</sup>, 2019.

- Participated in the National Conference on “**Enhancing the quality of Academics and Research in HEIs**” organized by the IQAC, The American College, Madurai on 28 January, 2025

### **Seminars:**

- An oral presentation of a paper on **Degree Divisor Graphs and its complement of graphs** has been done in the State Level Seminar on **RECENT RESEARCH DEVELOPMENTS IN MATHEMATICS** on 11<sup>th</sup> February, 2014 under UGC Autonomous Grant organized by the Department of Mathematics, Sri S. Ramasamy Naidu Memorial college, Sattur.
- Participated in the State level seminar on “ **NEW AREAS IN GRAPH THEORY**” organized by the Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on 13<sup>th</sup> March 2014.
- Participated in the “**UGC Sponsored State Level Seminar on RECENT TRENDS IN MATHEMATICAL MODELS** ” on 14<sup>th</sup> August, 2014 organized by the Department of Mathematics, Mannar Thirumalai Naicker College, Madurai.
- Participated in the “**AICTE Sponsored National Seminar on Industrial Applications of Soft Computing Techniques** ” organized by the Department of Mathematics, Thiagarajar College of Engineering, Madurai on 15<sup>th</sup> & 16<sup>th</sup> March 2019.

### **Workshops:**

- Participated in one week National level Faculty Development Programme on Application of Mathematics in Multi disciplinary Domains from 01.02.2024-08.02.2024 jointly conducted by A.C.T academy Kerala Unit and Department of Mathematics (SF) , The American College, Madurai.
- Participated in the Pedagogical Training for Mathematics Teachers on Linear Algebra held at the Central University of Tamil Nadu, Thiruvarur organized under the aegis of MTTS Trust Funded by National Board for Higher Mathematics from 11.12.2023 to 16.12.2023.
- Participated Workshop on Arts & Science of Methodical Scientific Writing and Publishing in a High-Impact Journal at IQAC, The American College, Madurai on 06.03.2023
- Participated Two days National Workshop on “Mathematics and Statistics for Data Analytics” at Department of Mathematics & Computer Science, The American College, Madurai on 21<sup>st</sup> & 22<sup>nd</sup> June, 2023.

- Participated in the **Science Academies' Lecture workshop** on “**Mathematical Modeling**” organized by the Department of Mathematics, The Madura College, Madurai during February 10 & 11, 2017.
- Participated in **One day Faculty Development Programme** organized by **NAAC-IQAC** of Mannar Thirumalai Naicker College, Madurai on 4<sup>th</sup> March 2017.
- Attended the Training programme on “**Mental Health First Aid**” organized by M.S. Chellamuthu Institute of Mental Health and Rehabilitation and supported by Rajiv Gandhi National Institute of Youth Development, Sriperumbudur, Tamil Nadu between March 08<sup>th</sup> & 10<sup>th</sup>, 2017 at Hotel SarathaRajans, Shenoy Nagar, Madurai.
- Attended **NSS Orientation Training Programme** at Avinashilingam University, Coimbatore from 04<sup>th</sup> to 10<sup>th</sup> October 2017.
- Participated in the workshop on “**Technicalities of Writing Research Proposal**” held on 29<sup>th</sup> June 2018 at Mannar Thirumalai Naicker College, Madurai.
- Participated in the **RMS & ADMA** sponsored “**Workshop on Graph theory and Its Applications**” organized by the Department of Mathematics, The Madura College, Madurai during 27-28, November 2014.
- Participated in the workshop on **Reformation in Examination system** organized by **NAAC-IQAC** of Thiagarajar College, Teppakulam, Madurai on 22.03.2012.
- Participated in the training program on **Enhancement of Internal Quality** organized by **NAAC-IQAC** of Thiagarajar College, Teppakulam, Madurai on 27<sup>th</sup> March 2012.

### **Webinars:**

- Participated Two-Day Online Workshop on “**Data Analytics and Machine Learning through Zero Coding**” at Division of Mathematics, School of Advanced Sciences, Vellore Institute of Technology, Chennai on 26<sup>th</sup> & 27<sup>th</sup> June, 2023.
- Participated in the International Seminar on Neoteric Applications in Mathematics at Thiagarajar College, Madurai on 08.11.2022 & 09.11.2022
- Participated in the National Seminar on “**Current Scenario in Graph Theory and its Applications**” under DBT Star College Scheme on 11.02.2022 organized by the Department of Mathematics, V.V. Vanniaperumal College for Women, Virudhunagar.
- Participated in the 27<sup>th</sup> International Conference on **International Academy of Physical Sciences on Mathematical Modelling in Biological Science**, held during the 26<sup>th</sup> to 28<sup>th</sup> of October 2021 organized by National Institute of Technology Silchar, Assam, India.

- Participated in the International Conference on **Class Groups on Number Fields and Related Topics**, held during the 21<sup>st</sup> to 24<sup>th</sup> of October 2021 at the Kerala School of Mathematics.
- Participated in the Two days International Virtual Workshop on “ **Innovative Resources and IPR in Research**” held on 8<sup>th</sup>-9<sup>th</sup> October 2021 organized by the PG & Research Department of Mathematics, The American College ( Autonomous), Madurai, Tamil Nadu, India.
- Participated in the National webinar on **Recent Research Directions in Distance in Graphs** organized by Department of Mathematics, Ayya Nadar Janaki Ammal College, Sivakasi on 28<sup>th</sup> May, 2020.
- Participated in the National **Faculty Enrichment Programme** from 13<sup>th</sup> May to 19<sup>th</sup> May 2020 organized by Internal Quality Assurance Cell of Mannar Thirumalai Naicker College, Madurai.

**Awards/ Fellowships:** Qualified SET Exam in 2016.