

Name :Dr. P. ARISTOTLE
Qualification : M.Sc., M.Phil., Ph.D.
Designation :ASSISTANT PROFESSOR
Department :MATHEMATICS
Date of Joining :02 – 07 - 2019
Phone No :9788619371, 9751722617
Email :aristotle90@gmail.com
aristotle@americancollege.edu.in



EDUCATIONAL QUALIFICATION:

Degree	Subject	College / University & Place	Year Completed
Ph.D.	MATHEMATICS	ALAGAPPA UNIVERSITY, KARAIKUDI.	2019
M.PHIL.	MATHEMATICS	THIAGARAJAR COLLEGE, MADURAI.	2013
M.Sc.	MATHEMATICS	THIAGARAJAR COLLEGE, MADURAI.	2012
B.Sc.	MATHEMATICS	THIAGARAJAR COLLEGE, MADURAI.	2010

Specialisation in Teaching: GRAPH THEORY, ALGEBRA, PROGRAMMING IN C AND C++, NUMERICAL METHODS

Specialisation in Research:GRAPH THEORY

Research Interests:DOMINATION AND COLORING IN GRAPHS

Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
ASSISTANT PROFESSOR	SENTHAMARAI COLLEGE OF ARTS AND SCIENCE, MADURAI.	JUNE 2013 TO JANUARY 2014
ASSISTANT PROFESSOR	SACS MAVMM ENGINEERING COLLEGE, MADURAI.	JULY 2018 TO JUNE 2019

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

Positions held / currently holding	Year - From (month/year) To month/year)
PG AUTONOMY COORDINATOR	JUNE 2020 TO MAY 2021
UG PRESIDENT	JUNE 2021 TO TILL

Membership in Professional Bodies: NIL

PUBLICATIONS:18

ARTICLES PUBLISHED IN INTERNATIONAL JOURNALS:

- S. Balamurugan, **P. Aristotle** and V. Swaminathan, *Neighbourhood Chromatic Domatic Partition in Graphs*, International Journal of Mathematics Trends and Technology, Special Issue, pp. 72 – 81, 2016.
- V. Praba, **P. Aristotle** and V. Swaminathan, *Colorful total domination with respect to color class domination partition*, International Journal of Mathematical Archive, Vol. 8 (9), pp. 36 – 38, 2017.
- S. Hemalathaa, A. Subramanian, **P. Aristotle** and V. Swaminathan, *Isolate Vertex Resolving Partition in a Graph*, International Journal of Latest Engineering and Management Research, Vol. 2 (8), pp. 1 – 3, August 2017.
- V. Praba, **P. Aristotle** and V. Swaminathan, *Semi-Strong Sets in a Graph*, International Journal of Latest Engineering and Management Research, Vol. 2 (8), pp. 22 – 24, 2017.
- **P. Aristotle**, S. Balamurugan and V. Swaminathan, *Graphical Equations on Neighbourhood Chromatic Domination*, International Journal of Mathematics Trends and Technology, Vol. 54 (3), pp. 253 – 261, February 2018.
- S. Balamurugan, **P. Aristotle** and V. Swaminathan, *On Graphs whose dom-chromatic and Chromatic strong domination number is upto Four*, International Journal of Pure and Applied Mathematics, Vol. 119 (15), pp. 61 – 68, 2018.
- S. Balamurugan, **P. Aristotle**, V. Swaminathan and G. Prabakaran, *On Graphs whose Neighbourhood Chromatic Domination Number is Two*, International Journal of Pure and Applied Mathematics, Vol. 119 (15), pp. 213 – 224, 2018.
- S. Balamurugan, **P. Aristotle** and V. Swaminathan, *Relationship between the Family of Neighbourhood Chromatic Dominating Sets and Dom-chromatic Sets in Certain classes of Graphs*, International Journal of Pure and Applied Mathematics, Vol. 119 (15), pp. 667 – 674, 2018.
- S. Balamurugan, **P. Aristotle** and V. Swaminathan, *On Neighbourhood Chromatic Domination in Graphs*, International Journal of Pure and Applied Mathematics, Vol. 119 (16), pp. 2033 – 2044, 2018.
- **P. Aristotle**, S. Balamurugan and V. Swaminathan, *Graphical Equations with Neighbourhood Chromatic Domination Number and Chromatic Number*, International Journal of Pure and Applied Mathematics, Vol. 120 (6), pp. 7631 – 7640, 2018.

- S. Hemalathaa, A. Subramanian, **P. Aristotle** and V. Swaminathan, *A Generalization of Independent Resolving Partition of a Graph*, International Journal of Current Advanced Research, Vol. 7 (2), pp. 10165 – 10171, February 2018.
- S. Hemalathaa, A. Subramanian, **P. Aristotle** and V. Swaminathan, *Equivalence Resolving Partition of a Graph*, International Journal of Latest Engineering and Management Research, Vol. 3 (6), pp. 49 – 54, 2018.
- V. Praba, **P. Aristotle** and V. Swaminathan, *Chromatic Resolving Dominator (Color Class Domination) Partition of a Graph*, Mathematical Sciences International Research Journal, Vol. 7 (1), pp. 34 – 45, 2018.
- V. Praba, V. Swaminathan and **P. Aristotle**, *Color Class Domination and Colorful Domination*, International Journal of Pure and Applied Mathematics, Vol. 120 (4), pp. 623 – 638, 2018.
- **P. Aristotle**, S. Balamurugan, P. Selva Lakshmi and V. Swaminathan, *Chromatic Weak Domatic Partition in Graphs*, TWMS Journal of Applied and Engineering Mathematics, Vol. 9 (2), pp. 279 – 286, 2019.
- **P. Aristotle**, S. Balamurugan and V. Swaminathan, *Computational Complexity of Some Domination Parameters*, Journal of Applied Science and Computations, Vol. 6 (4), pp. 1652 – 1658, April 2019.
- S. Balamurugan, M. Anitha, **P. Aristotle** and C. Karnan, *A Note on open support of a Graph under Addition I*, International Journal of Mathematics Trends and Technology, Vol. 65 (5), pp. 110 – 114, May 2019.
- S. Balamurugan, M. Anitha, **P. Aristotle** and C. Karnan, *A Note on open support of a Graph under Addition II*, International Journal of Mathematics Trends and Technology, Vol. 65 (5), pp. 115 – 119, May 2019.

Articles published in National Journals: NIL

CONFERENCE / SEMINAR / WORKSHOP PRESENTATIONS:

- ✓ Presented a paper titled **On Neighbourhood Chromatic Domination in Graphs** held on January 9, 2015 in *National Conference on Recent Development in Mathematics and its Applications*, Sponsored by DST, conducted by The Madura College, Madurai.
- ✓ Presented a paper titled **On Graph whose Neighbourhood Chromatic Domination Number is Two** held on March 12 – 13, 2015 in *National Conference on Recent*

Developments on Emerging Fields in Pure and Applied Mathematics, Sponsored by UGC, conducted by Thiagarajar College, Madurai.

- ✓ Presented a paper titled **Chromatic Weak Domatic Partition in Graphs** held on July 15 – 16, 2015 in *International Conference on Graph Theory and its Applications*, conducted by Ramanujan School of Mathematical Sciences, Pondicherry University, Puducherry.
- ✓ Presented a paper titled **Neighbourhood Chromatic Domatic Partition in Graphs** held on August 06 – 08, 2015 in *Three day National Conference on Recent Developments in Coloring, Domination and Distinguishing Codes in Graphs*, Sponsored by NBHM and UGC, conducted by Government Arts College, Melur, Madurai.
- ✓ Presented a paper titled **Strong Weak Chromatic Domination Balance in a Graph** held on June 09 – 11, 2016 in *International Conference on Discrete Mathematics and Graph Theory Day XII*, Sponsored by SERB, ISRO, DRDO and TEQIP – II, conducted by Siddaganga Institute of Technology, Tumakuru, Karnataka.
- ✓ Presented a paper titled **Graphical Equations with Neighbourhood Chromatic Domination Number and Chromatic Number** held on February 20 – 22, 2017 in *International Conference on Mathematical Modeling and Computational Methods in Science and Engineering*, conducted by Ramanujan Centre for Higher Mathematics and Department of Mathematics, Alagappa University, Karaikudi.
- ✓ Presented a paper titled **Neighbourhood Chromatic Domination and Coloring in Graphs** held on Feb 23 – 24, 2017 in *Two-day National Conference on Current Trends in Graph Theory and Computation*, Sponsored by TEQIP – II, conducted by Thiagarajar College of Engineering, Madurai.
- ✓ Presented a paper titled **The Average Parameter for Neighbourhood Chromatic Domination Number of a Graph** held on Jan 08 – 10, 2018 in *International Conference on Algebra and Discrete Mathematics*, Sponsored by SERB, CSIR, conducted by Department of Mathematics, Directorate of Distance Education, Madurai Kamaraj University, Madurai.
- ✓ Presented a paper titled **Neighbourhood Connected Strong Domination in Graphs** held on Oct 30 – Nov 02, 2018 in *National Level Workshop on Semigraphs and Generalized Graph Structures*, Sponsored by UGC Autonomy Grant, ADMA, conducted by Department of Mathematics, V. V. Vanniaperumal College for Women, Virudhunagar.
- ✓ Presented a paper titled **Open (Closed) Multiplicity of a Graph** held on Dec 20 – 21, 2018 in *International Conference on Discrete and Computational Mathematics (ICDM*

- 18), conducted by Department of Mathematics and Ramanujan Centre for Higher Mathematics, Alagappa University, Karaikudi.
- ✓ Presented a paper titled **Neighbourhood Chromatic Domination on Mycielskian of a Graph** held on June 23 – 24, 2020 in the *Virtual International Conference on Innovation in Interdisciplinary Research 2020*, organized by Kalasalingam Academy of Research and Education, Krishnankoil, through online mode.
- ✓ Presented a paper titled **Super Complementary Domination in Graphs** held on Dec 20 – 22, 2020 in the *22nd FAI International Conference on Mathematical, Computational Intelligence and Engineering Approaches ICMCIE 2020*, organized by The American College, Madurai, India collaborated with FATER Academy of India, through online mode.

WORKSHOP / CONFERENCE / SEMINAR / FDP / WEBINAR ATTENDED:

- Attended *Instructional Workshop on Graph Labeling Problems*, held on Feb 5 – 11, 2014 Sponsored by DST, conducted by Kalasalingam University.
- Attended *International Conference on Algebra and Discrete Mathematics*, held on March 04 – 06, 2014 Sponsored by UGC, CSIR, NBHM, KSCSTE, DST, Government of Kerala, Department of Collegiate Education, conducted by Government College, Kattappana, Kerala.
- Attended *International Workshop on Graph Theory and its Applications to Visual Cryptography*, held on March 10 – 15, 2014 Sponsored by DST, conducted by Kalasalingam University.
- Attended *National Level Workshop on Analytical Tools for Researchers in Commerce and Computer Science*, held on July 03 – 05, 2014 Sponsored by UGC, conducted by V. V. Vanniaperumal College, Virudhunagar.
- Attended *State Level Seminar on Recent Trends in Mathematical Models*, held on August 14, 2014 Sponsored by UGC, conducted by Mannar Thirumalai Naicker College, Madurai.
- Attended *Workshop on Graph Theory and its Applications*, held on November 27 – 28, 2014 Sponsored by RMS and ADMA, conducted by The Madura College, Madurai.
- Attended *ADMA Pre-Conference Workshop on Fuzzy Graphs*, held on June 07 – 09, 2015 conducted by B.S. Abdur Rahman University, Chennai.

- Attended *Eleventh Annual Conference of ADMA and Graph Theory Day XI*, held on June 10 – 12, 2015 conducted by B.S. Abdur Rahman University, Chennai.
- Attended *State Level Seminar on Recent Developments in Algebra and Graph Theory*, held on September 30, 2015 conducted by APC Mahalaxmi College for Women, Thoothukudi.
- Attended *One day National Seminar on Topological Aspects of Graph Theory*, held on November 18, 2015 Sponsored by TEQIP – II, conducted by Thiagarajar College of Engineering, Madurai.
- Attended *National Conference on Contemporary Graph Theory and its Applications*, held on January 11, 2016 conducted by NMS Sermathai Vasan College for Women, Madurai.
- Attended *Two day National Seminar on Discrete Mathematics and its Applications to Engineers*, held on February 09 – 10, 2017 Sponsored by TEQIP – II, conducted by Thiagarajar College of Engineering, Madurai.
- Attended *13th Annual ADMA Conference and Graph Theory Day XIII*, held on June 08 – 10, 2017 Sponsored by SERB, IMS and ADMA, conducted by SSN College of Engineering, Kalavakkam, Chennai.
- Attended *Online Faculty Development Programme on Examinations in wake of COVID – 19*, held on May 8, 2020, conducted by Patrician College of Arts and Science, Chennai in association with Digital Edu IT Solution.
- Attended *International Faculty Development Program (Online) on Managing Stress, Teaching and Learning during this period of social distancing*, held on May 10, 2020, Jointly Organized by MTC Global, Bangalore, Dhaka International University, Dhaka, Bangladesh and Knowledge Café, Bangalore.
- Attended *two-day Online Faculty Development Programme on New Normal – Pedagogical tools for online teaching*, held on May 11 – 12, 2020, conducted by Fatima College, Madurai.
- Attended *Online Faculty Development Programme in the Data Science using R and Geo Gebra*, held on May 11 – 14, 2020, conducted by Jamal Mohamed College, Tiruchirappalli in association with SPOKEN TUTORIAL Project, IIT Bombay.
- Attended *National level Faculty Development Programme*, held on May 13 – 14, 2020, North Storm Academy Presents FDP 2.0.

- Attended ***National Level Online Faculty Development Programme on R Language***, held on May 13 – 20, 2020, conducted by Auxilium College, Vellore, in collaboration with SPOKEN TUTORIAL Project, IIT Bombay.
- Attended ***Online Faculty Development Programme on Probability and Statistics (with hands on training using virtual MATLAB & R)***, held on May 16 – 22, 2020, conducted by Kalasalingam Academy of Research and Education, Krishnankoil.
- Attended ***National Webinar on Taking Research Forward during the Pandemic***, held on May 20, 2020, conducted by Loyola Institute of Frontier Energy, Loyola College, Chennai.
- Attended ***Online Faculty Development Programme on Migration of IT INFRA using Cloud***, held on May 20 – 21, 2020, conducted by Poornima Institute of Engineering and Technology, Jaipur.
- Attended ***Webinar Programme on Centrality Measures in Graph theory***, held on May 23, 2020, conducted by Kalasalingam Academy of Research and Education, Krishnankoil.
- Attended ***Online Faculty Development Programme on Graph theory – A research view***, held on May 26, 2020, conducted by Nirmala College for Women, Coimbatore.
- Attended ***Webinar on Mathematical Documentation and Computation using online tools***, held on May 28 – 29, 2020, conducted by St. Mary’s College, Thoothukudi.
- Attended ***Online Workshop on Data Analysis using SPSS***, held on May 28 – 30, 2020, conducted by The American College, Madurai.
- Attended ***five-day online Faculty Development Programme on Evolution from Offline to Online Teaching***, held on May 30 – June 3, 2020, conducted by Satish Pradhan Dnyanasadhana College, Thane, in association with Department of Information Technology of Mumbai, Yashwantrao Chavan Maharashtra Open University, Mumbai Regional Centre and Microsoft.
- Attended ***five days Faculty Development Programme on Python 3.4.3***, held on June 10 – 15, 2020, conducted by Dharmamurthi Rao Bhagadur Calavala Cunnan Chetty’s Hindu College, Chennai, in collaboration with Spoken Tutorial Project, IIT, Bombay.
- Attended ***Webinar on Encryption through Molecular Graphs***, held on June 13, 2020, conducted by Dr. MGR – Janaki College of Arts and Science for Women, Chennai.
- Attended ***one day National Webinar on The Role of Technology in Teaching – Learning Mathematics***, held on June 16, 2020, conducted by Vidhyaa Arts and Science College, Salem.

- Attended *Webinar on Real World Applications of Linear Algebra*, held on June 18, 2020, conducted by ATMIYA Institute of Technology and Science for Diploma Studies, Rajkot, Gujarat, India.
- Attended *National Webinar on Theory of Graphs – An Emerging Field of Research*, held on **June 20, 2020**, conducted by Thiagarajar College, Madurai.
- Attended *National Webinar on New Extorial Function and its Application in Fractional Calculus*, held on June 24, 2020, Government Arts College for Women, Salem.
- Attended *International Webinar on Recent Trends on Domination in Graphs*, held on June 25, 2020, conducted by V. O. Chidambaram College, Thoothukudi.
- Attended *Webinar on Fuzzy matrix and its applications*, held on June 26, 2020, conducted by A.D.M. College for Women, Nagapattinam.
- Attended *Online National Webinar on Graph Decomposition using Graph Labelings*, held on June 27, 2020, conducted by St. Joseph's Institute of Technology, Chennai.
- Attended the *online Webinar on Mathematica and Applications of Mathematics*, held on June 27 – 29, 2020, conducted by Pillai College of Engineering, New Panvel, Maharashtra.
- Attended *National Statistics Day – webinar on Applications of Statistics*, held on June 29, 2020, conducted by Sri Ramakrishna College of Arts and Science, Coimbatore.
- Attended *Six days Faculty Development Programme on Applications of Mathematics in Diverse Fields*, held on June 29 – July 4, 2020, conducted by Anand Institute of Higher Technology, Kazhipattur, Chennai.
- Attended *National Webinar on CSIR NET Mathematics – Linear Algebra – Diagonalization*, held on July 15, 2020, conducted by Sengunthar Arts and Science College, Tiruchengode, Namakkal, Tamilnadu.
- Attended and *Completed two weeks Faculty Development Programme on ADVANCED CONCEPTS FOR DEVELOPING MOOCS*, held on July 2 – 17, 2020, conducted by Teaching Learning Centre Ramanujan College, University of Delhi, sponsored by MHRD Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, Government of India.
- Attended the *Webinar on Hacks and Tips: CSIR-UGC-NET Examination in Mathematics*, held on July 6 – 8, 2020, conducted by The American College, Madurai.
- Attended *five days International Conference on Recent Trends in Mathematics and its Applications to Graphs, Networks and Petri Nets (ICRTMA – GPN - 2020)*, held on

July 20 – 24, 2020, conducted by School of Computational and Integrative Sciences Jawaharlal Nehru University, New Delhi, India.

- Attended *the webinar on Applications of Mathematics*, held on Dec 30, 2020, conducted by Sethu Institute of Technology, Pulloor, Kariapatti.
- Attended *National webinar on Modelling and Solving Graph colouring problems using GRIN software*, held on May 26, 2021, conducted by Theivanai Ammal College for Women, Villupuram.
- Attended *online workshop on Recent Trends in Domination and Graph Labelling (RTDGL 2021)*, held on May 27 – 31, 2021, conducted by Ramanujan College, University of Delhi in collaboration with Academy of Discrete Mathematics and Applications (ADMA).
- Attended the *Webinar on Linear Algebra and its Applications*, held on June 14, 2021, conducted by Vivekananda College, Tiruvedakam, Madurai.
- Attended *Virtual Workshop on Mathematical Sciences for CSIR – UGC JRF/ NET and GATE aspirants*, held on June 28 – July 2, 2021, conducted by St. Mary’s College (Autonomous), Thoothukudi.
- Attended *Two days Workshop on Blended Learning Through E-Assessment: Moodle*, held on August 12 & 13, 2021, conducted by SRM Institute of Science and Technology, Chennai.
- Attended *CMI – NASI Online Workshop on Linear Algebra and Elementary Number Theory*, held on Jan 27 to Feb 26, 2022, conducted by Mepco Schlenk Engineering College, Sivakasi.
- Attended *One Week Faculty Development Programme on Effective Teaching Learning Paradigms through Pedagogical Innovations*, held on Feb 7 – Feb 12, 2022, conducted by Sathyabama Institute of Science and Technology, Chennai.
- Attended the *National Seminar on Current Scenario in Graph theory and its Applications*, held on Feb 11, 2022, conducted by V.V.Vanniaperumal College for Women, Virudhunagar.

Awards / Fellowships:

- ✓ Secured **Gold Medal** in **B.Sc. Mathematics**.
- ✓ Received **Junior Research Fellowship** from **DST – SERB** during the period 2013 – 2015.