

## **CURRICULUM VITAE**

**Dr.ARUVI M**

**Assistant Professor**

**Department of Mathematics**

**UCE – BIT Campus, Tiruchirappalli 620 024**

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➤ **Research Area:**

- Graph Theory
- Topological Graph Theory

➤ **Educational Qualifications:**

<b>Qualification</b>	<b>College/University</b>	<b>Year of completion</b>
Ph.D. (Mathematics)	St.Joseph's College (Autonomus), Tiruchirappalli	2021
M.Phil. (Mathematics)	Alagappa University, Karaikudi	2008
PG (Mathematics)	Seethalakshmi Ramaswamy College (Autonomous), Tiruchirappalli	2004
UG (Mathematics)	Seethalakshmi Ramaswamy College (Autonomous), Tiruchirappalli	2002

**Experience:**

<b>Name of Company / Institutions</b>	<b>Designation of Post</b>	<b>From</b>	<b>To</b>	<b>Experience in Year</b>
<b>UCE – BIT Campus, Tiruchirappalli</b>	Assistant professor	15.09.2009	Till date	14 yrs

➤ **Awards / Honours Received:**

1. Awarded as Best Woman Professor given by Holy Cross College (Autonomous), Tiruchirappalli, 2023.

➤ **Additional / Academic Responsibilities at University:**

1. Serving as SAP Energy Management Coordinator from 2020 – Till date
2. Serving as Department IQAC Coordinator, 2019-Till date
3. Served as Department Cultural Coordinator, 2013-2023.

➤ **Membership of Scientific and Professional Societies:**

1. Life member in Indian Mathematical Society since July 2016.
2. Life member in Ramanujan Mathematical Society since August 2016.

➤ **Publications:**

**a. International Journals:**

1. **Aruvi, M.**, J. Maria Joseph, and E. Ramganes. "Four New Sums of Second Hyper Zagreb Index Based on Cartesian Product." Communications in Mathematics and Applications 12.2 (2021): 253.
2. **Aruvi, M.**, J. MARIA Joseph, and E. Ramganes. "The second Gourava index of some graph products." Advances in Mathematics: Scientific Journal 9.12 (2020): 10241-10249.
3. **Aruvi, M.**, J. Maria Joseph, and E. Ramganes. "The multiplicative second hyper Zagreb index of some graph operations." J. Math. Comput. Sci. 10.6 (2020): 2829-2845.
4. **Aruvi, M.** "The multiplicative reformulated first Zagreb index of some graph operations." Malaya Journal of Matematik (MJM) 8.3, 2020 (2020): 1189-1195.
5. **Aruvi, M.**, V. Piramanantham, and R. S. Manikandan. "Distance based F-index of some graph products." Bull. Int. Math. Virtual Inst 10.3 (2020): 459-471.
6. **Aruvi, M.**, V. Piramanantham, and R. Muruganandam. "Distance version of hyper Zagreb index of some graph operations." J. Int. Math. Virtual Inst 10.1 (2020): 1-40.

7. Muruganandam, R., R. S. Manikandan, and **M. Aruvi**. "The exact and the sharp upper bound for multiplicative Zagreb indices of graph product." Bull. Int. Math. Virtual Inst (2019): 281-286.
8. Muruganandam, R., R. S. Manikandan, and **M. Aruvi**. "Sharp Upper bounds for Multiplicative Degree Distance of Graph Operations." Open Access Library Journal (2017): 1-18
9. Muruganandam, R., R. S. Manikandan, and **M. Aruvi**. "The multiplicative versions of the reciprocal degree distance and the reciprocal Gutman index of some graph products." Bull. Int. Math. Virtual Inst (2017): 581-594.
10. Muruganandam, R., R. S. Manikandan, and **M. Aruvi**. "Sharp Upper bounds for Multiplicative Version of Degree Distance and Multiplicative Version of Gutman Index of Some Products of Graphs." Journal of Algorithms and Computation 50.1 (2017): 1-28.
11. **Aruvi, M.**, V. Piramanantham, and R. Muruganandam. "Reciprocal Gutman index of products of complete graphs." Int. J. Engin. Sci. Res. Technol 4 (2015): 108-113.

➤ **List of Seminar / Short Term Course /FDP/ Workshop organized:**

- A live Webinar on “Applied Mathematics”, 15.07.2020
- Training program on Waste Management ~ Trash to Treasure, 10th & 11th November 2014, Anna University, BIT Campus, Tiruchirappalli.
- National Seminar on “Fuzzy Mathematical Modelling and Optimization Techniques”, 27th and 28th July, 2011, Anna University of Technology Tiruchirappalli.

➤ **List of Seminar / Short Term Course /FDP/ Workshop attended:**

- Refresher Course in Statistics, 30<sup>th</sup> Mar to 13<sup>th</sup> Apr 2023, Teaching Learning Centre, Ramanujan College, University of Delhi.
- Faculty Development Programme on Inculcating Universal Human Values in Technical Education, 03<sup>rd</sup> to 07<sup>th</sup> Jan 2022, AICTE.
- Faculty Development Programme on Numerical Linear Algebra, Jan-Apr 2022, NPTEL-AICTE.

- Faculty Development Programme on Descriptive Statistics with R Software, Feb-Apr 2021, NPTEL-AICTE
- ICT Tools for Teaching Learning Process and Institute, 10<sup>th</sup> to 21<sup>st</sup> Aug 2020, Electronics and ICT Academies.
- Faculty Development Programme on Advanced Concepts for Developing MOOCs, 02<sup>nd</sup> to 17<sup>th</sup> Jul 2020, Teaching Learning Centre, Ramanujan College, University of Delhi.
- Industrial Training on Basic Science and Communication, 08<sup>th</sup> to 26<sup>th</sup> Jun 2020, BSNL, Tiruchirappalli.
- Faculty Development Programme on Managing ONLINE Classes Co-creating MOOCs 2, 18<sup>th</sup> May to 03<sup>rd</sup> Jun 2020, Teaching Learning Centre, Ramanujan College, University of Delhi.
- Faculty Development Programme on Introduction to Abstract and Linear Algebra, Aug-Oct 2019, NPTEL-AICTE.
- Faculty Development Programme on Probability and Statistics, Jan-Apr 2019, NPTEL-AICTE.
- Faculty Development Programme on Introductory Mathematical Methods for Biologists, Feb-Apr 2019, NPTEL-AICTE.
- Faculty Development Programme on Introduction to Operations Research, Aug-Sep 2018, NPTEL-AICTE.
- Faculty Development Programme on Ordinary and Partial Differential Equations and Applications, Jul-Oct 2018, NPTEL-AICTE
- National Seminar on Topology and its Applications in Various Fields, 9<sup>th</sup> and 10<sup>th</sup> Feb 2017, Seethalakshmi Ramaswamy College (Autonomous), Tiruchirappalli.
- Faculty Development Programme on Enhancing Classroom Communication, 18<sup>th</sup> to 31<sup>st</sup> July 2016, Anna University, BIT Campus, Tiruchirappalli.
- Workshop on Probability and Random Processes, 05<sup>th</sup> & 06<sup>th</sup> March 2016, Anna University, BIT Campus, Tiruchirappalli.
- Advanced Training Programme in Mathematical Analysis, 05<sup>th</sup>-09<sup>th</sup> August 2015, Bharathidasan University, Tiruchirappalli.
- Bridge Course on Mathematics, 29<sup>th</sup> & 30<sup>th</sup> June 2015, Anna University, Chennai.
- Faculty Development Programme on Emerging Trends in Mathematical Modelling and Simulation, 8<sup>th</sup> to 14<sup>th</sup> May, 2015, Anna University, BIT Campus, Tiruchirappalli.

- Faculty Development Programme on Recent trends in Mathematics, 16th to 22nd Dec, 2013, Anna University, BIT Campus, Tiruchirappalli.
- Seminar on Differential Equations and Applications, 4th and 5th Dec, 2013, Anna University, BIT Campus, Tiruchirappalli
- 81st Orientation Programme, 06th Nov to 03rd Dec, Academic Staff College, Bharathidasan University, Tiruchirappalli.

➤ **National / International Conferences organized / Participated:**

- Presented a paper in International Conference on Discrete Mathematics, 07<sup>th</sup> to 09<sup>th</sup> Jan 2019, St.Joseph's College (Autonomous), Tiruchirappalli.

➤ **Professional recognitions: (details like chairperson/member of a committee, reviewer, editor ...etc)**

- NEP 2020 Translator of Technical Books in Regional Language scheme of AICTE for First Year.