

BIO DATA



Name : S. MUTHUKUMAR

Designation : Assistant Professor

Department : Mathematics

Address for Communication: 53/44b, Balajinagar, Bypass road north,
Virudhunagar - 626 001

Email : muthukumars@ritrjpm.ac.in

Mobile Number : 7604816224, 9629564304

ORCID: 0009-0007-1320-6082

Google Scholar: 6aJ4toAAAAAJ

Scopus ID: 60120371200

1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.Sc	Mathematics	VHNSN College, Virudhunagar, Madurai Kamaraj University	2011
M.Sc	Mathematics	Pondicherry University, Puducherry.	2013
M.Phil	Mathematics	Madurai Kamaraj University, Madurai	2014
Ph.D	Mathematics	Karpagam Academy of Higher and Education, Coimbatore.	Thesis Submitted

2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Assistant Professor	Ramco Institute of Technology, Rajapalayam	02.08.20 24	Till date
2	Assistant Professor	VHNSN College (Autonomous), Virudhunagar.	15-05-2018	31-07-2024

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3	Assistant Professor	SriVidya College of Engineering and Technology, Virudhunagar	22-07-2017	19-04-2018
4	Assistant Professor	Syed Ammal Engineering College, Ramanathapuram.	15-06-2014	29-04-2017

3. Research Interest: Queueing Theory

4 Publications:

1. Muthukumar, S., & Ebenesar Anna Bagyam. J. (2025). A Steady-State Behaviour of An M/M/1 Queue with Optional Differentiated Working Vacations, Server Breakdown, And Customer Balking. *Advances and Applications in Statistics*, 92(4), 603-631. DOI: <https://doi.org/10.17654/0972361725025> (WOS)
2. Muthukumar, S., Ebenesar Anna Bagyam. J., & Basarikodi, K. (2025). Performance Optimization of M/M/1 Queues with Working Vacations and Server Breakdowns in Wireless Communication Systems. *Journal of Telecommunications and Information Technology*, 101(3), 79-85. DOI: <https://doi.org/10.26636/jtit.2025.3.2195> (SCOPUS)
3. Muthukumar, S., Ebenesar Anna Bagyam. J, and S. Keerthana. (2025). A Steady State Behavior of M/M/1 Queue with an Optional Differentiated Working Vacation and Arrival Restriction. *Communications in Mathematics and Applications*, 16(1), 277. DOI: <https://doi.org/10.26713/cma.v16i1.2815> (WOS)
4. Muthukumar, S., Ebenesar Anna Bagyam, J., Kannan, G., Sridevi, S., & Balamurali, S. (2026). Strategic analysis of M/M/1 queueing model with optional working vacations and customer decision-making. *Journal of Statistical Computation and Simulation*, 1-28. DOI: <https://doi.org/10.1080/00949655.2026.2653038> (SCI)

5 Book/Book chapter publications: Nil

6 Funded Projects: Nil

S. No.	Title of the project	Funding Agency	Duration	Amount	Status

7 Ph.D. guidance: Nil

S. No	Scholar name	University	Topic	Status

8 Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

S. No	Title of the event	Organized by
1	Faculty Development Program on “MA6151-Mathematics-I”	Ramco Institute of Technology from 09-06-2014 to 15-06-2014.
2	Faculty Development Program on “Bridge	Anna University, Chennai from

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	Course on Mathematics”	20 & 21 June 2014
3	Faculty Development Program on “Teaching Methodologies”	Syed Ammal Engineering College, Ramanathapuram on 30-07-2016 and 05-08-2016.
4	Faculty Development Program on “How to be an Interesting and Inspiring Teaching Professional” organized	Syed Ammal Engineering College, Ramanathapuram on 20-08-2016.
5	Faculty Development Program on “Modern Tool Usage in Teaching”	Syed Ammal Engineering College, Ramanathapuram on 13-12-2016.
6	Faculty Development Program on “Handling Google Classroom for Evaluating Student Learning”	IQAC, VHNSN College (Autonomous), Virudhunagar on 20-05-20
7	Faculty Development Program on “Outcome Based Education”	IQAC, VHNSN College (Autonomous), Virudhunagar on 08-06-2020 and 09-06-2020
8	One Day Online National Faculty Development Program on “Higher Education in the VUCA World”	Nimala College for Women (Autonomous), Coimbatore, on 10-05-2020.
9	One Day Online National Faculty Development Program on “Web Skills for Online Classes”	Bishop Moore College, Mavelikara on 30-05-2020
10	One Day Online National Faculty Development Program on “Teaching for Transformation and Excellence in Post Covid Era”	The American College, Madurai on 06-06-2020.
11	One Day International Faculty Development Program on “Academic Publication Strategy- Planning & Execution”	One Day International Faculty Development Program on “Academic Publication Strategy- Planning & Execution”
12	Three Days State Level Faculty Development Program on “Applications of Mathematics”	Hindustan College of Engineering and Technology, Coimbatore from 13-06-2020 to 15-06-2020.
13	Online Workshop and One Week National Online Faculty Development Program on “Moodle Learning Management System”	Spoken Tutorial, IIT Bombay at Hindustan College of Arts and Science, Coimbatore, from 10-06-2020 to 16-06-2020
14	Five Days International Online Faculty Development Program on “Emerging Trends in Information Technology”	Karpagam College of Engineering, Coimbatore, from 26-06-2020 to 27-06-2020.
15	Six Days International Online Faculty Development Program on “Digital Education”	Bishop Appasamy College of Arts and Science, Coimbatore from 27-06-2020 to 03-07-2020.
16	Three Days Faculty Development Program on “Art of Teaching Philosophies”	Bharathidasan College of Arts and Science, Coimbatore form 23-07-2020 to 25-07-2020.

17	Faculty Development Program on “English for Effective Teaching”	IQAC and the Department of English (SF) from 25-10-2021 to 30-10-2021 at VHNSN College (Autonomous), Virudhunagar.
18	Faculty Development Program on “Digital Pedagogy and New Education Policy 2022”	VHNSN College Management on 08-2022 and 09-08-2022 at Kodaikanal.
19	Online Seminar of “Math on AI”	Department of Mathematics, Dr. M. G. R. Educational and Research Institute on 10th December 2024
20	Webinar on “R&D Conclave 2024”	Research Council at Ramco Institute of Technology, Rajapalayam on 26.12.2024.
21	Online training/webinar on “IEEE Xplore”	Ramco Institute of Technology, Rajapalayam on 20.02.2025
22	Faculty Development Program on “Unveiling Emerging Research Trends in Mathematics”	Department of Mathematics, SRM Madurai College for Engineering and Technology, Sivagangai from 20.08.24 to 21.08.24.
23	Five day Faculty Development Programme on “ Algebraic structures”	Research department of mathematics, nesamony memorial christian college, marthandam held from 16.12.2024 to 20.12.2024.
24	Five day Faculty Development Programme on “ Recent Development in Pure and Applied Mathematics”	Department of Engineering Sciences & Humanities, IIST, Indore in association with Indian Mathematical Society held from 23.12.2024 to 28.12.2024.
25	“National Level Online Hands-On Workshop on MATLAB & SCILAB”	IQAC, the Department of Mathematics, Sonari College, Assam, the Indian Mathematics Professors Association, and the Infinity Research & Development Institute, Coimbatore, from 15th December to 17th December, 2025.
26	Online international faculty development program titled "Empowering Multi-Disciplinary Educators,"	Department of Mathematics at Easwari Engineering College, from December 15th to December 19th, 2025.
27	Five-day national-level Faculty Development Programme (FDP) on 'Computational Intelligence and Data Science for STEM Faculty Using R & Python'	Department of Mechanical Engineering and Department of Mathematics Ramco Institute of Technology, Rajapalayam from June 9 to June 13, 2025
28	Five-day FDP on “Empowering Faculty through Research and Innovation”,	Sri Sairam Engineering College, Chennai, from 05.02.2026 to 10.02.2026.

9 Short term Courses / Seminars /FDP/Workshop/Conference organized: Nil

10 Online Courses:

S.No	Course title	University	Period
1.	Numerical Methods for Engineers	Coursera	Jan 8 2025
2.	Multivariable Calculus	NPTEL	Jan-Mar 2025
3.	Introduction to Abstract and Linear Algebra	NPTEL	Jul-Sep 2025
4.	Basic Linear Algebra	NPTEL	Jan-Mar 2026

11 Patents filed:

S.No	Title of the Patent	Published details
1.	Iot DEVICES OPTIMIZING ENERGY USE AND MANAGEMENT IN SMART HOME ENVIRONMENTS.	Application No. 202541001914 A Publication Date: 24/01/2025
2.	AI-DRIVEN MATHEMATICAL FORECASTING SYSTEM USING HYBRID REGRESSION MODELS FOR DYNAMIC EVENT PREDICTION IN FINANCIAL AND METEOROLOGICAL APPLICATIONS	Journal No. 44/2025 Dated 31/10/2025.

12 Awards, Recognition & Achievements: Nil

Any others (Board of studies/Governing Council/Staff Selection/ Reviewer/other duties)