

STAFF PROFILE

- 1) Name: **Dr. M. RAJARAM**
2) Designation: **Assistant Professor and Head**
3) Department: **Department of Statistics**
4) Qualifications:



Academic: **M.Sc., M.Phil., Ph.D.,**

Additional: **D.G.T.,**

- 5) Experience (in years): Teaching: **8 Years 3 Months** Research: --
6) Area of Specialization: **Non-linear Differential Equations, Approximation Techniques**
7) Contact: E-mail: rajaram23292@gmail.com Mobile Number: **9655075143**
8) Grants Received (Conference/Workshop/Seminar/any other):

Event Title	Agency	Fund Received	Date
NIL	NIL	NIL	NIL

- 9) Project Completed:

Project Title	Agency	Fund Received	Duration
NIL	NIL	NIL	NIL

- 10) Project ongoing:

Project Title	Agency	Fund Received	Duration
NIL	NIL	NIL	NIL

- 11) Research Guidance:

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	NA	NA
M. Phil.	NA	NA

- 12) Research Publications:

	International	National
Total Number of Publications	01	06

List of International Publications:

1. Modeling glucose isomerization in a packed-bed reactor: A complete theoretical and numerical approach, International Journal of Electrochemical Science, Vol. 18, P.no.1-7, ISSN no. 1452-3981, (2023).

List of National Publications:

1. Mathematical Analysis of Biogas Generation in a Wastewater Digester, *Malaya Journal of Matematik*, Vol. 1, P.no. 102–112, ISSN no. 2319 – 3786, (2019).
2. Solution of Steady-state Reactant and Product Concentration for Immobilized Enzymes at Mixed Type Product Inhibition Kinetics, *Journal of Applied Science and Computations*, Vol. VI, (III), P.no. 932– 941, ISSN no. 1076 – 5131, (2019).
3. Mathematical Modeling and Analysis of Nonlinear Monod's Equations, *Journal of Applied Science and Computations*, Vol. VII, (IX), P.no. 87 – 96, ISSN no. 1076 – 5131, (2020).
4. Analytical Solution of Velocities and Temperature Fields using Homotopy Analysis Method, *Turkish Journal of Computer and Mathematics Education*, Vol. 12, (1S), P.no. 691– 700, ISSN no. 1309 – 4653, (2021).
5. Theoretical Comparison of Nonlinear Analytical Methods in Biofilm Model, *Journal of Xi'an University of Architecture and Technology*, Vol. XIII, (3), P.no. 47 – 59, ISSN no. 1006 – 7930, (2021).
6. New Analytical Solution of Stagnation Point Flow and Heat Transfer in a Porous Medium, *SNC Journal of Academic Research in Humanities and Sciences*, Vol. 8 (1), P.no. 75 – 85, ISSN no. 2582 – 0397, (2021).

13) Chapters in Books: NIL

14) Other Publications (Proceedings): NIL

15) Books Published: NIL

16) Presentation in Seminar / Conference:

International: **04**

1. International Conference on Modern Trends in Mathematics, **Solution of Steady-state Reactant and Product Concentration for Immobilized Enzymes at Mixed Type Product Inhibition Kinetics**, organized by Department of Mathematics, Hajee Karutha Rowther Howdia College, Uthamapalyam on September 10th, 2018.
2. International Conference on Discrete and Computational Mathematics, **Theoretical Analysis of Nonlinear Partial Differential equations with Convective Boundary Conditions**, organized by Department of Mathematics, Alagappa University, Karaikudi on December 20th and 21st, 2018.
3. International Conference on New Frontiers in **Mathematics and Computing, Mathematical Analysis of Biogas Generation in a Wastewater Digester**, organized by Department of Mathematics and Department of Computer Science, Lady Doak College, Madurai on February 18th and 19th, 2019.

4. International Conference on Recent Trends in Science, Technology, Education and Environmental Studies, **Mathematical Analysis of Non-linear Differential Equations using Q-Homotopy Analysis Method**, organized by the Unit of Rural Biotechnology, Saraswathi Narayanan College, Madurai on April 29th and 30th, 2019.

National: **02**

1. National Seminar on Applied mathematics and IPR, **Mathematical Modeling and Analysis of Non linear Monod's Equation**, organized by Department of Mathematics, Mannar Thirumalai Naicker College, Madurai on December 20th, 2019.
2. National Conference on Recent Trends in Graph Theory and Mathematical Modeling, **Theoretical Comparison of Nonlinear Analytical Methods in Biofilm Model**, organized by Department of Mathematics, Sethu Institute of Technology, Kariapatti on February 5th, 2021.

17) Participation in Conference:

1. International Web Conference on **Advances in Mathematics**, organized by PG and Research Department of Mathematics, ST. Mary's College, Thoothukudi, June 17th to 19th 2020.

18) Participation in Seminar:

International: **02**

1. International webinar on **Recent Trends In Mathematics**, organized by Department of Mathematics, Government Arts College, Udthagamandalam, July 10th and 11th, 2020.
2. International Webinar on **Complex Analysis Involving Quantum Calculus** organized by the Department of Mathematics, Guru Nanak College, Chennai on July 24th, 2020.

National: **04**

1. National Seminar on **Applied Mathematics**, organized by Department of Mathematics, The Madura College, Madurai, February 13th, 2020.
2. National Webinar on **Qualitative Analysis of Differential Equations and its Application**, organized by Department of Mathematics, G.T.N Arts College, Dindigul on May 21st, 2020.
3. National Webinar on **Catalan Numbers and its Applications**, organized by PG and Research Department of Mathematics, V.O.Chidambaram College, June 10th, 2020.

4. Two days National Webinar on **Mathematical Modelling and Applications**, organized by Department of Science and Humanities (Mathematics), RMK College of Engineering and Technology, Puduvoyal, July 27th and 28th, 2020.

19) Participation in Workshop:

1. Two days National level workshop on **Data Analysis in Social Science Research**, organized by Department of Commerce, Nazia College of Arts and Science, Virudhunagar, January 27th and 28th, 2020.

20) Participation in Orientation Programme/ Induction Programme/ Short term Courses:

1. Short Term Training Program on **Matlab-Statistics and Data Science**, organized by Department of Applied Science, Sagar institute of Research and Technology, Bhopal, July 27th to August 1st 2020.

21) Participation in Faculty Development Programme:

1. Faculty Development Programme on **Recent Development in Applied Mathematics**, organized by Department of Mathematics, AMIT Deemed to be University, Chennai, November 5th to 7th, 2019.
2. Faculty Development Programme on **LaTeX and Scilab** organised by Department of Mathematics, D.K.M. College for Women, Vellore, in association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India from April 30th to May 4th, 2020.
3. Faculty Development Programme on **Probability and Statistics (with hands on training using virtual MATLAB & R)**, organized by School of Advanced Sciences, Department of Mathematics, Kalasalingam Academy of Research and Education, Krishnankoil, May 16th to 22nd, 2020.
4. International Faculty Development Programme on **Mathematical in Real, Applied and Computational Domains**, organized by Department of Mathematics, Sathyabama Institute of Science and Technology, Chennai, July 3rd to 8th, 2023.
5. Faculty Development Programme on **Fuzzy Mathematics and its Applications**, organized by Department of Mathematics, Government College Daman, Daman (UT), July 11th to 13th, 2020.
6. International Faculty Development Programme on **Prominence of Mathematics in Diverse Sectors** organized by Department of Science and Humanities, Hindustan College of Engineering and Technology, July 22nd and 23rd, 2020.

22) Conference/ Seminar/ Workshop Organized: NIL

23) Invited Speaker/ Session Chair – Conference/ Seminar/ Workshop: NIL

24) Other Co-curricular / Administrative Responsibilities: NIL

- 25) Member in Board of Studies: NIL
- 26) Editorial/ Review Board Member: NIL
- 27) Membership in Professional Bodies: NIL
- 28) Awards received: NIL
- 29) Consultancy: NIL
- 30) Patents: NIL
- 31) Any other information: ---

* Note: Please provide the total Numbers and details for each metrics