

RESUME

NAME : Dr. S. MUTHUKUMAR

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Sri Nagar, Iyer Bungalow,
Madurai - 625 017.
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DATE OF BIRTH : 20.05.1964

PRESENT POSITION : HEAD OF THE DEPARTMENT OF MATHEMATICS
AND HEAD OF THE DEPARTMENT OF STATISTICS
IN ADDITIONAL INCHARGING

POSITION HELD : The Registrar, Tamil University, THANJAVUR
Finance officer as an additional charge for seven months

QUALIFICATION : M.Sc. M.Phil., PGDCA, MCA, PhD.

S.No	Degree	Name of the Institution	Division	Year of passing
1.	B.Sc(Maths)	A.V.V.M.Sri Pushpam College, Poondi, Thanjavur.	I	1985
2.	M.Sc(Maths)	Rajah Serfoji Govt. College, Thanjavur	I	1987
3.	M.Phil(Maths)	A.V.V.M.Sri Pushpam College, Poondi, Thanjavur.	I	1989
4.	PGDCA	The American College, Madurai	I	1999
5.	MCA	Madurai Kamaraj University, Madurai	I	2005
6.	Ph. D(Maths)	Madurai Kamaraj University, Madurai	-	2015
Title of the M. Phil Dissertation: Some Classes of Analytical function with negative coefficient.				
Title of the Ph. D Thesis: Initial And Boundary Value Problems In Bio-Chemical system.				

EXPERIENCE

: 30 Years in Teaching.

PAPER PUBLISHED

: 8 (International)

1. S. Muthukumar, L. Rajendran, Concentration of species in two-species oscillator using the Homotopy perturbation method, *Global Journal of Theoretical and Applied Mathematics Sciences*,2(2) (2012)99-108.
2. S. Muthukumar, L. Rajendran, Analytical expressions of the concentrations of substrate and product in enzyme inhibition process,*Natural Science*, 5(9) (2013) 1047-1055.
3. S. Muthukumar, L. Rajendran, Mathematical solutions to non-linear differential equations in aerobic stabilization, *International Journal of Applied Sciences and Engineering Research*, 3(2) (2014) 383-392.
4. S. Muthukumar, M. Veeramuni and L. Rajendran, Analytical expression of concentration of substrate and oxygen in excess sludge production using the Adomian decomposition method, *Indian Journal of Applied Research*,4(5) (2014) 387-392.
5. S. Muthukumar, C.Thangapandi, S.Mahalakshmi and M.Veeramuni, Mathematical Modelling of Lorenz Equations using Homotopy Perturbation Method, *International Journal of Mathematical Archive*, 8(12) 6-12(2017) 2229-5046.
6. S. Muthukumar, C.Thangapandi, S.Mahalakshmi and M.Veeramuni, Analytical solution of A Differential Equation that Predicts the Weather Condition by Lorenz Equations using Homotopy Perturbation Method,*Global Journal of Pure and Applied Mathematics*,13(11)8056-8074 (2017) 0973-1768.
7. C.Thangapandi, S. Muthukumar,K.Renganathan and R.Srinivasan, Analytical solution of non linear reaction equation in the spruce budworm and forest, *Malaya Journal of Mathematik*, Vol.S.No.1, 389-391, 2020.

8. C.Thangapandi, K.Renganathan ,S. Muthukumar, and R.Srinivasan, Analytical solutions of non linear boundary value problem for chemical reactions of enzyme substrate, Malaya Journal of Mathematik, Vol.S.No.1, 435-444, 2020.

PAPER PRESENTED

: Five (1 International conference, 4 National levels)

1. Presented a paper “Mathematical solutions to non-linear differential equations in aerobic stabilization” in one day National Conference on Science and Humanities (NCMPCE-13) at Kongunadu college of Engineering and Technology, Namakkal, Tamil Nadu, on 15th March, 2013.

2. Presented a paper “Analytical expressions of the concentrations of substrate and product in enzyme inhibition process” in DST & CSIR sponsored National conference on “ADVANCES AND APPLICATIONS IN MATHEMATICAL MODELLING” at The Madura College, Madurai, Tamil Nadu, on 15th& 16th, April 2013.

3. Presented a paper “Analytic solutions to concentration of substrate in excess sludge production” in CSIR and NBHM sponsored International conference on “MATHEMATICAL COMPUTATIONAL AND MODELLING” at The Madura College, Madurai, Tamil Nadu, on 6th January, 2014.

4. Presented a paper “A study on production of excess sludge in old landfills” in ONE DAY NATIONAL CONFERENCE ON MATHEMATICAL MODELLING AND APPLICATIONS (NCMMA–2014)” at SSM Institute of Engineering & Technology, Dindigul, Tamil Nadu, on 28th March, 2014.

5. Presented a paper “Analytical expression of concentration of substrate and oxygen in excess sludge production using Adomian decomposition method” in DST sponsored National conference on “RECENT DEVELOPMENT IN MATHEMATICS AND ITS APPLICATIONS” at The Madura College, Madurai, Tamil Nadu, on 9th January, 2015.

SEMINARS ATTENDED : Seven

POSITION HELD : Organizing Secretary for two International Conferences
Organizing Secretary for three National level Conference
Organizing Secretary for four State level conference

MEMBERSHIP : Life member in Indian society for Technical Education
Board of study member in various autonomous colleges

Dr.S. MUTHUKUMAR