

## CURRICULUM VITAE OF Dr. P. MUTHUKUMAR

**Name** : Dr. P. Muthukumar M.Sc., B.Ed., M.Phil., Ph.D.,  
**Designation** : Assistant Professor  
Department of Mathematics  
Gandhigram Rural – Institute Deemed University  
Gandhigram – 624 302  
Tamilnadu, INDIA



### Educational Qualifications:

Sl. No.	Degree	Subject/ Specialization	College/University/ Institute	Percentage/ Class/Grade	Year of Passing
1.	B.Sc. (Mathematics)	Mathematics, Physics and Chemistry	Gobi Arts and Science College, Gobichettipalayam (Affiliated to Bharathiar University, Coimbatore)	72.23%, First	May – 2000
2.	M.Sc. (Mathematics)	Mathematics	Gobi Arts and Science College, Gobichettipalayam (Affiliated to Bharathiar University, Coimbatore)	76.47%, First	May – 2002
3.	B.Ed. (Mathematics)	Mathematics, Computer Science	Sri Ramakrishna Mission Vidhyalaya College of Education, Coimbatore (Affiliated to Bharathiar University Coimbatore)	70.28 %, First	May - 2003
4.	M. Phil. (Mathematics)	Abstract Control Theory	Bharathiar University, Coimbatore	Commended	March - 2006
5.	Ph. D. (Mathematics)	Control Theory/ Stochastic Differential Equations	Gandhigram Rural University, Gandhigram – 624 302	Highly Commended	November – 2009

**Experience:**

Sl. No.	Institute/ University	Department	Designation	Duration	
				From	To
1.	Kaamadhenu Arts and Science College, Sathyamanagalam (Affiliated to Bharathiar University)	Mathematics	Lecturer in Mathematics	18-06-2003	14-03-2005
2.	Gandhigram Rural Institute – Deemed University, Gandhigram	Mathematics	Project Fellow, UGC-SAP(DRS-I)	15-03-2005	31-03-2009
3.	Gandhigram Rural Institute – Deemed University, Gandhigram	Mathematics	Senior Research Fellow, Council of Scientific and Industrial Research (CSIR-SRF).	01-04-2009	05-11-2009
4.	PSG College of Technology, Coimbatore(Autonomous, Affiliated to Anna University-Coimbatore)	Mathematics with Computer Applications	Senior Lecturer in Mathematics	17-02-2010	01-07-2010
5.	Gandhigram Rural Institute – Deemed University, Gandhigram	Mathematics	Assistant Professor in Mathematics	02-07-2010	till date

**Specialization:****Area of Research**

✚ Control Theory/ Differential Equations

**Area of Interest**

✚ Stochastic Differential Systems and Impulsive Differential Systems


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## Publications:

### Publications in International level (SCI – Journals)

1. P. Balasubramaniam and **P. Muthukumar**, Approximate controllability of second order stochastic distributed implicit functional differential systems with infinite delay, *Journal of Optimization Theory and Applications*, **143**(2009), 225-244.
2. **P. Muthukumar** and P. Balasubramaniam, Approximate controllability of nonlinear stochastic evolution systems with time-varying delays, *Journal of the Franklin Institute*, **346**(2009), 65-80.
3. **P. Muthukumar** and P. Balasubramaniam, Approximate controllability for semi-linear retarded stochastic systems in Hilbert spaces, *IMA Journal of Mathematical Control and Information*, **26**(2009), 131-140.
4. P. Balasubramaniam, J. Y. Park and **P.Muthukumar**, Approximate controllability of neutral stochastic functional differential systems with infinite delay, *Stochastic Analysis and Applications*, **28**(2010), 389-400.
5. **P. Muthukumar** and P. Balasubramaniam, Approximate controllability of second-order damped McKean–Vlasov stochastic evolution equations, *Computers and Mathematics with Applications*, **60**(2010), 2788-2796.

### Publications in National level

1.  **P. Muthukumar** and P. Balasubramaniam, On controllability of nonlinear neutral stochastic differential systems, *Proceedings of Mathematics, Computing and Modeling*, Allied Publishers, Pvt. Ltd., Chennai, India, 2007, pp. 39-48, ISBN:81-8424-213-1.

### Presented papers in Conferences/Seminars

1. National Seminar on Recent Trends in “*Nonlinear Differential Equations and Dynamical Systems*”, Department of Mathematics, PSG College of Arts and Science, Coimbatore, 24–25 March 2006.

2. National Conference on *Mathematics, Computing and Modeling*, Gandhigram Rural University, Department of Mathematics, Gandhigram Rural University, Dindugul, 3-4 March 2007.

**Seminars/Conferences/Workshops attended:**

1. Actively participated in the *National Conference on Computing and Mathematical Modeling* conducted by Department of Mathematics, Gandhigram Rural Institute Deemed University, Gandhigram held during March 25<sup>th</sup> -26<sup>th</sup>, 2005.
2. Participated in the *National Seminar on the Spirit, Culture and Relevance of Mathematics* conducted by Department of Mathematics, Saraswathi Narayan College, Madurai during May 27<sup>th</sup> & 28<sup>th</sup>, 2005.
3. Participated in the *Summer School on Stochastic Process and its Applications* conducted by the Department of Mathematics, Indian Institute of Technology, Guwahati held during July 11<sup>th</sup> – 23<sup>rd</sup>, 2005.
4. Attended the *Winter School on Soft Computing Tools, Simulation and Applications* held in the Center for Soft Computing Research of Indian Statistical Institute at Kolkata during January 10<sup>th</sup> – 14<sup>th</sup>, 2006.
5. Actively participated in the *National Conference on Intelligent Optimization Modeling* conducted by Department of Mathematics, Gandhigram Rural Institute Deemed University, Gandhigram held during March 03<sup>rd</sup> & 04<sup>th</sup>, 2006.
6. Participated in the *International Conference on Stochastic Processes and Applications* held from July 16<sup>th</sup> – 21<sup>st</sup>, 2007 at the Department of Mathematics, Indian Institute of Science, Bangalore.
7. Participated in the *National Workshop on Soft Computing* held from January 21<sup>st</sup> – 27<sup>th</sup>, 2008 at the Department of Mathematics, Gandhigram Rural University, Gandhigram.
8. Participated in the *International Seminar on Dynamical Systems* held on February 16<sup>th</sup>, 2008 at the Department of Mathematics, Gandhigram Rural University, Gandhigram.
9. Participated in the *Symposium on Nonlinear Evolution Equations* held on April 18<sup>th</sup> – 19<sup>th</sup>, 2008 at the Department of Mathematics, Indian Institute of Science, Bangalore.

10. Participated in the *National Workshop on Mathematical Modeling and Computational Mathematics* held from February 23-28, 2009 at the Department of Mathematics, Gandhigram Rural University, Gandhigram.
11. Participated in the Workshop on PDE and Related Analysis held during the period from August 31 – September 18, 2009 at the Department of Mathematics, Indian Institute of Science, Bangalore.

**Countries Visited:**

Served as a Resource Person in 10-day In-Service Teachers Training programme offered for the Tamil plantation School Teachers of upcountry SRI LANKA, Organised by Indian High Commission, Kandy, Sri Lanka during 05-12-2009 to 14-12-2009 (10 days)

**Awards & Recognitions:**

- ✚ Selected as ***Project Fellow*** by the University Grants Commission (UGC), Govt. of India, New Delhi, INDIA under Special Assistance Programme (SAP) DRS-I, Grant No. F.510/6/DRS/2004 (SAP-1).
- ✚ Selected as ***Senior Research Fellow*** under Council of Scientific and Industrial Research (CSIR), New Delhi, INDIA (Grant No. 09/715(0012)/2009-EMR-I).