

Faculty Name: Dr. Kalyan Das

Address for correspondence:

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Telephone: +91 9830571527

Date of Birth: 10/04/1965

Education: M.Sc., Ph. D. (Sc.)

Work Experience:

Lecturer/Mathematics	Heramba Chandra College (South City),Kolkata	01/11/1998-01/11/1999
Lecturer / Engineering Mathematics	BPPIMT	01/08/2006 – till now
Mathematical Modeling in Biology, Ecology & Epidemics	Research experience more than 12 years	1995 – till now

Current Research Interest:

Mathematical Modelling in Biology, Ecology and Epidemics

Professional Societies Membership:

- Member of Indian Statistical Institute, Calcutta.
- Member of Indian Society of Industrial and Applied Mathematics.
- Member of Indian Science Congress Association.
- Member of Pashimbangha Bignan Mancha.
- Member of Indian Society of Nonlinear Analysis, S.N.Bose National Centre for Basic Sciences, J.D.Block, Sector -III, Salt Lake City, Kolkata:700 098.
- Member of the International Association of Engineers.
- Reviewer of Zentralblat MATH, Berlin, Germany of European Mathematical Society.
- Member of International Statistical Institute, Netherland.

List of publication: National/International Paper/ Books:

- D.Konar, Kalyan Das, A.K.Sarkar, 1997, Global Stability and Existence of a Three Species Donor-Controlled Model with Extensive Omnivory, Bulletin of Hong-Kong Mathematical Society, Vol.2, pp.261 -269.
- Kalyan Das, A.K.Sarkar, 1998, Effect of Time Delay in an Autotroph - Herbivore System with Nutrient Cycling, Korean Journal of Computational and Applied Mathematics, vol.5 No.3, pp.507 -516.

- Kalyan Das,A.K.Sarkar,1998,Stability and Oscillation of an Autotroph - Herbivore Model with Time Delay,International Journal of System Science,Vol.32 No.5,pp.585-590.
- Kalyan Das,A.K.Sarkar, 2001, Stability and Bifurcation of Two Interacting Species with Time Delay,Non-Linear Phenomena in Complex System,Vol.4 No.4, pp. 406-411.
- Kalyan Das,A.K.Sarkar,2002,Qualitative Analysis of a Resource -Baesd-Autotroph-Herbivore Model with Delayed Nutrient Cycling, Non-Linear Phenomena in Complex System, Vol.5 No.1, pp.33 -38.
- Kalyan Das,A.K.Sarkar,2007 ,Algal-Blooms due to Trophic Interaction : Study of Time Delay Model,Dynamics of Continious,Discrete and Impulsive Systems,Series:B,Vol.14 No.4,pp.517 -524.
- Kalyan Das,A.K.Sarkar,2007,Algal-Blooms due to Trophic Interaction : A Qualitative Study, Dynamics of Continious,Discrete and Impulsive Systems,Series:A,Vol. 14,No.3,pp. 401 -414.
- Bidisha Bag,Kalyan Das, Santanu Roy,2006,Endemic Flurosis Through Drinking Water and Its Remedial Measure By Bacterial Population : A Mathematical Aproach,Journal of Biological System,Vol.14, No.1,pp.1 -11.
- Samrat Chatterjee,Kalyan Das,J.Chattopadhyay,2007,Time -delay factor can be used as a key factor for preventing the outbreak of a disease - results drawn from a mathematical study of a one season eco - epidemiological model,Non-linear Analysis, Vol.8, pp. 1472-149.
- D.Mukherjee,Kalyan Das,2007,Persistence Aspect of an Epidemic Model of Chagas Disease,Tamsui Journal of Mathematical Sciences (Under Revision).
- Kalyan Das,A.K.Sarkar,2008,Bifurcation Results of Nutrient - Phytoplankton-Zooplankton Model With Delayed Recycling,Journal of Theoretical Biology (Under Revision).
- Kalyan Das,Santanu Roy,2008,Delay in the decomposition of dead algae and its impact on benthic food chain of reclaimed mangrove ecosystem, International journal of Non-linear Studies (Under Revision).
- Kalyan Das,Santanu Roy,2008,Effect of delay on nutrient cycling in phytoplankton-zooplankton interactions in estuarine system,Journal of Ecological Modelling, Vol.215, pp. 69 -76.
- Nurul Huda Gazi, Kalyan Das,2007, Oscillatory phenomena of nutrient - plant-herbivore system with time lag: a mathematical approach,International Journal of Non-linear Studies Vol.15(2), pp. 163-177.
- Kalyan Das, Nurul Huda Gazi,2008,Structural Stability Ananlysis of an Algal Bloom Mathematical Model in Trophic Interaction,International Journal of "Mathematical Methods in the Applied Sciences"(Revision).
- Nurul Huda Gazi, Kalyan Das,2008,Eco-biological consequences of an autotroph herbivore model with delayed nutrient recycling, International Journal of Differential Equations (Communicated).

- Nurul Huda Gazi, Kalyan Das,2008,Stability and bifurcation of a delayed detritus-based ecosystem,International Journal of Mathematical Biology (Communicated).
- Kalyan Das,2008,Uniform Persistence , Impermanence and Stability for Cyclic Sets of Ordinary and Integrodifferential Equation, International Journal "Non-linear Analysis" (Communicated).

Achievements:

International and National Conferences/Workshops/Symposiums:

- Attended and presented a contributed lecture in the National Symposium on "Evolution of Life", Dept. of Biophysics, University of Delhi, April 5 - 6, 1996.
- Attended and presented a contributed lecture in the National Seminar "Recent Trends in Applicable Mathematics" under UGC -DSA programme (Phase-II), Deptt. Of Maths, Jadavpur University, September 27 -29, 1996.
- Attended and presented a contributed lecture in the Conference "Current Trends in Differential Equations and Dynamical Systems" sponsored by AICTE, NBHM, CSIR and INSA held at Indian Institute of Technology, Kanpur, December 15-17, 2001.
- Attended the National Symposium on "Recent Development on Mathematics and Applications", March 27-28, 2001, Department. of Mathematics , University of Kalyani, West Bengal.
- Attended and presented a contributed lecture in the Conference "Conference on Current Trends in Mathematics" Department of Mathematics, University of Allahabad, Allahabad-211002, November 9-10, 2002.
- Attended the workshop on Qualitative Theory of Ordinary Differential Equation, in the Department of Mathematics, University of Pune, Pune, on 23-27 nov., 2004.
- Attended the Summer School on Mathematical Modelling & its Engineering Applications from 27th April to 9th May, 2007, organized by West Bengal State Council of Science & Technology and Department of Science & Technology, Government of West Bengal in association with B.P.Poddar Institute of Management & Technology, Kolkata and PDSIT, Bengal Engineering & Science University, Shibpur, Howrah.
- Attended and presented a contributed lecture in the International Conference on Applied mathematics and Mathematical Physics, January 6-9, 2003, Deptt. Of mathematics, Shahjalal University of Science and Technology, Sylhet 3114, Bangladesh.
- Attended and presented a contributed lecture in the International Conference on Applied mathematics and Mathematical Physics, January 4-7, 2005, Deptt. Of mathematics, Shahjalal University of Science and Technology, Sylhet 3114, Bangladesh.
- Attended and presented a contributed lecture in the "The 6th European Conference on Ecological Modelling Trieste , Italy, 27 – 30 November 2007"

- Attended the Winter School "Hands-on Research on Complex Systems" conducted by ICTP, Italy, at Institute of Plasma Research, Gandhinagar, 6 - 18 January, 2008, India
- Attended and presented a contributed lecture in the "7th World Congress in Probability and Statistics" at National University of Singapore, Singapore from 14th July to 19th July, 2008.