

Dr. Md. Saifuddin



Assistant Professor

Department of Mathematics

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Educational Background:

Program	Institution	Year of completion
Ph. D.	ISI Kolkata	2017
MSC in <Mathematics>	Indian Institute of Technology Madras, Chennai	2011
BSC in<Mathematics>	R.K.M.Residential College, Narendrapur	2009

Teaching Activities:

- **Assistant Professor in Techno India College Of Technology, Rajarhat, Kolkata**
(July 2012- December 2012).

Selected Academic Activities:-

1. Qualified JAM examination in Mathematics (All India Rank-124) in 2009
2. Qualified GATE examination in Mathematics (All India Rank -252) in 2012
3. Qualified NET-JRF in Mathematics (All India Rank -121) in 2012

Research Interests:

- Mathematical Epidemiology.
- Infectious Disease in Eco- epidemiology.
- Nonlinear Dynamical System.
- Fractional order differential equation.
- Time delay in Population Model

Communicated and Published Research Articles:

- Effect of Emergent Carrying Capacity in an Eco-epidemiological System. (Published in **Mathematical Methods in Applied Sciences**)
- On Existence of Multiple Periodic Solutions for Lotka-Volterra's Predator-Prey model with Allee effects.(Published in **Nonlinear Studies**)
- A delayed Eco-epidemiological System with Infected Prey and Predator subject to the weak Allee effect.(Published in **Mathematical Bioscience**)
- A delayed Prey-Predator system with prey subject to the strong Allee effect and disease (Published in **Nonlinear Dynamics**)
- Complex Dynamics of an Eco-epidemiological Model with Different Competition coefficients and Weak Allee in the Predator (Published in **Chaos Soliton & Fractals**)
- Optimal harvesting and complex dynamics in a delayed eco-epidemiological model with weak Allee effects (Published in **Nonlinear Dynamics**)
- An Eco-epidemiological Model with Different competition coefficients and Strong-Allee in the Prey (Published in **International Journal of Bifurcation & Chaos**)

Workshop & Conference Attended

- Presented Paper on India Biodiversity Meet 2013, 2014, 2015, 2016, 2019.
- Participated in advanced workshop on Partial Differential Equations: Analysis and Applications, 2013.
- Attended the One day seminar on Applied Statistics organized by BIRU, ISI Kolkata, 2013.
- Participated in the National Conference on Mathematical and Theoretical Biology, 2014 organized by Jadavpur University.
- Attended a DST-SERB Winter School on Nonlinear Dynamics organized by CURAJ, 2014.
- Presented Paper on National Meet of Research Scholars in Mathematical Sciences, Sponsored by DST at Gauhati University, 2015.
- Attended Workshop on R Programming for students and researchers organized by ISI Kolkata, 2015.
- Attended a Winter School on Nonlinear Dynamics organized by HGU, ISI Kolkata, 2015.
- Attended an International Workshop on Nonlinear Complex Dynamical Systems organized by AERU, ISI Kolkata, 2016.
- Participated in the Workshop titled “Influence of Microbiology on Human Health” held at Adamas University, 2017.
- Attended a seminar on “An Overview of Industry Application of Analytics & Big Data Usage and its Future Direction” organized by Department of Economics, Adamas University, 2017.
- Attended and Presented Paper in International Conference on Mathematical Analysis and Application in Modelling organised by Jadavpur University, 2018.
- Attended a one day National Seminar on 'Interface Between Chemistry and Biology' organized by Department of Chemistry, Adamas University, 2018.
- Attended National Conference on Frontiers in Modern Physics, 2018.
- Presented a poster in the conference Frontiers of Statistical Physics, Jointly collaborated by Presidency University and ISI Kolkata, 2018.
- Attended an “International Conference on Biotechnology: A Paradigm Shift in Health and Agriculture” held at Adamas University, 2018.
- Participated in the Workshop titled “Impact of Microbes on Environment and Society” held at Adamas University, 2018.
- Attended National Science Day held at Adamas University, 2019.