

Profile of the Faculty



Name of the Faculty: Dr. Md. Sabiar Rahman

Designation: Assistant Professor

Contact Details: Mob no.: 9733813314,

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Qualification: M.Sc. B.Ed. Ph.D.

Specialization: Bio-Mathematics

Research Experience: 8 Years

Areas of the Research: Nonlinear dynamics, Bifurcations & Chaos, Mathematical Modelling of Ecological Systems (Effect of Refuge, Allee effect, Harvesting), Mathematical Epidemiology, Eco-genetic systems

Seminar/ Conference/Workshop Attended (last 5 years):

- Attended in the National Seminar for Nonlinear Systems organized by Department of Mathematics, Visva-Bharati (a Central University), Santiniketan-731 235, West Bengal, India, during October March 17-18, 2013.

- **Attended with paper presentation on the topic “An eco-epidemiological.....Allee effect” in the workshop and symposium on Applied Nonlinear Dynamics and chaos (ANDC-2014) jointly organized by GCETT, Berhampore, Msd, WB and DIET, Basantapur, Msd, WB, India, during 26th-31st May’ 2014.**
- **Attended in a one week workshop (Teachers Enrichment)organized by National Centre of Mathematics (A joint centre of TIFR and IIT Bombay)**
- **Attended in the Orientation Programme organized by University of Calcutta (HRDC), West Bengal, India, during December 19, 2016 to January 14, 2017.**
- **Attended in the Refreshers Course organized by Jadavpur University (HRDC), West Bengal, India, during 1st December-22nd December, 2017.**

Publications

- (1) Mainul Haque, **Md. Sabiar Rahman**, Ezio Venturino, 2013 “Comparing functional responses in predator-infected eco-epidemics models”, **BioSystems**, Elsevier. Vol. 114, No. 2, 98-117.
- (2) **Md. Sabiar Rahman**, Santabrata Chakravarty, 2013 “A predator-prey model with disease in prey”, **Nonlinear Analysis: Modelling and Control**, Vol. 18, No. 2, 191-209.
- (3) **Md. Sabiar Rahman**, Santabrata Chakravarty, 2013 “Persistence and global stability analysis of an eco-epidemiological model of the Salton Sea”, **International Journal of Ecological Economics and Statistics**, Vol. 30, No. 3, 83-101.
- (4) Gui Quan Sun, Sahabuddin Sarwardi, Pallav Jyoti Pal and **Md. Sabiar Rahman**, 2010 “The spatial patterns through diffusion-driven instability in modified Leslie-Gower and Holling-type II predator-prey model”, **Journal of Biological System**, World Scientific. Vol. 18, No. 03, 593-603.
- (5) **Md. Sabiar Rahman**, Santabrata Chakravarty, “An eco-epidemiological model of competitive interacting species with Allee effect”, published in **International Journal of Dynamics and Control**, Springer-Verlag Berlin Heidelberg 2014, 1-14.

- (6) Mainul Haque, **Md. Sabiar Rahman**, Ezio Venturino, "Effect of a functional response-dependent prey refuge in a predator-prey model", published in **Ecological Complexity**, Elsevier B.V. 2014.
- (7) **Md. Sabiar Rahman**, "Modelling of an eco-genetic system: a mathematical model", Published in **International journal of Ecological Economics and Statistics**, 2016.