

DR. KOUSHIK GHOSH

(To see the complete profile please visit

<https://sites.google.com/site/koushikghoshhome>)

Designation: Assistant Professor in Mathematics, Department of General Science & Humanities

Academic Qualification: M.Sc. (Applied Mathematics), M.Phil., Ph.D. (University of Calcutta, Kolkata, India)

Experience: 7 years and 11 months till the end of August 2011. Joined UIT, The University of Burdwan, Burdwan, India in September, 2006; previously attached to Dr. B.C. Roy Engineering College, Durgapur, India.

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Research Areas: i) Stellar and Substellar Astrophysics

ii) Analysis of Time Series and Statistical Signal Processing (Applications in Solar Signals and Financial Time Series)

iii) Nonlinear Systems and Dynamics

iv) Mathematical Modelling in Biological Systems, Social and Behavioural Sciences

v) Pattern Recognition

Publications and Research Activities: *Published 81 Research Articles* in different reputed journals and conference proceedings and have participated and *presented papers in 86 different conferences/ seminars/ workshops and summer schools in and outside India* till the end of August 2011. A complete profile can be seen in the website <https://sites.google.com/site/koushikghoshhome>.

List of Publications only in the year 2011 till the end of August:

Serial No.	Name of Authors	Year of Publication	Title of the Article	Journal	Volume	No.	Page
1	Anulekha Tapadar, Koushik Ghosh & Kripasindhu Chaudhuri	2011	A Mathematical Model of the Spread of Malaria	Review Bulletin of the Calcutta Mathematical Society	19	1	125
2	K. Mofazzal Hossain, Dipendra Nath Ghosh, Koushik Ghosh & Anup Kumar Bhattacharya	2011	Power Spectrum Analysis In Search For Periodicities In Solar Irradiance Time Series Data From ERBS	Journal of Engineering Science and Technology Review	4	1	96
3	Sankar Narayan Patra, Koushik Ghosh & Subhash Chandra Panja	2011	Time Variation Analysis of the Daily Forbush Decrease Indices	Astrophysics and Space Science	334	2	317
4	K. Mofazzal Hossain, Dipendra Nath Ghosh, Koushik Ghosh & Anup	2011	Multifractality and Singularity of ^8B Solar Neutrino Flux Signals from Sudbury Neutrino	IET Signal Processing			In Press



	Kumar Bhattacharya		Observatory				
5	Sankar Narayan Patra, Koushik Ghosh & Subhash Chandra Panja	2011	Scaling And Fractal Dimension Analysis Of Daily Forbush Decrease Data	International Journal of Electronics Engineering Research	3	2	237
6	Debalina Roy & Koushik Ghosh	2011	The Scenario Of Investment In Systematic Investment Plan (SIP) Among The Retail Customers	Global Journal of Finance and Economic Management	1	1	49
7	Koushik Ghosh	2011	Love Between Two Individuals in a Romantic Relationship: A Newly Proposed Mathematical Model	Proceedings of the 7 th IMT-GT International Conference on Mathematics, Statistics and its Applications (ICMSA 2011) Bangkok, Thailand			97
8	K. Mofazzal Hossain, Dipendra Nath Ghosh, Koushik Ghosh & Anup Kumar Bhattacharya	2011	Nonlinearity And Chaos In ⁸ B Solar Neutrino Flux Signals From Sudbury Neutrino Observatory	Fractals			In Press

Experience In Supervising Ph.D. Work: Presently six candidates are working under my supervision for their Ph.D. Degree. Mr. Gautam Bhattacharyya is working in the field of Pattern Classification; Mr. K. Mofazzal Hossain, Mr. Sankar Narayan Patra and Mr. Samujjwal Roy are working in the field of Statistical Signal Processing (Astrophysical Signals); Mrs. Anulekha Samadder (Tapadar) is working in the domain of Mathematical Modelling in Epidemiology and Mr. Swetadri Samadder is working in the field of Analysis of Financial Time Series.

Awards, Medals, Prizes Won:

Name of the Award / Model / Prize	Year of Award	Awarding Authority
1) S.N. Bose Birth Centenary Award	2000	Calcutta Mathematical Society, Kolkata, India
2) Selected among the best 6 Young Scientists in the Section of Physics	2002	89 th Session of Indian Science Congress Association, Lucknow University, Lucknow, India
3) Selected among the best 6 Young Scientists in the Section of Mathematics	2004	91 st Session of Indian Science Congress Association, Panjab University, Chandigarh, India
4) Selected among the best 6 Young Scientists in the Section of Mathematics	2005	92 nd Session of Indian Science Congress Association, Nirma University, Ahmedabad, India
5) Selected among the best 6 Young Scientists in the Section of Mathematics	2006	93 rd Session of Indian Science Congress Association, Acharya N.G. Ranga Agricultural University, Rajendranagar, Hyderabad, India