BARASAT GOVERNMENT COLLEGE

TEACHER'S PROFILE

DR SUDIP MUKHERJEE, DEPARTMENT OF PHYSICS

DESIGNATION	:	Assistant Professor (Stage1)
QUALIFICATION	:	M.Sc., Ph.D.
DATE OF JOINING THE SERVICE	:	Jul 1, 2015
DATE OF JOINING THE INSTITUTION	:	Jul 1, 2015
ADDRESS FOR COMMUNICATION	:	10, K.N.C Road Barasat, Kolkata, West Bengal 700124
PHONE NO	:	personal
EMAIL ADDRESS	:	sudip.bat@gmail.com
SPECIALIZATION	:	Statistical mechanics
TEACHING EXPERIENCE	:	I have six years of teaching experience. During these years I have been teaching both UG and PG curriculum.
COLLEGE SERVED	:	Barasat Govt. College till 1st July, 2015.

ACADEMIC AND ADMINISTRATIVE EXPERIENCE	:	I performed several paper setting and moderation duties associated with the Uniceesity and PG examinations. I have been working in admission and system management committees. I have been also working as a departmental PG coordinator.
TOPICS TAUGHT	:	Theoretical topics: Statistical mechanics, kinetic theory of gases, complex variable, linear vector space and matrices. Experimental topic: Basic python computing and numerical programming.
AREA OF RESEARCH & INTEREST	:	My research area is Statistical perspectives on disordered and driven systems.
ONGOING PROJECT DETAILS	:	Name of the project: Broken symmetry phases in correlated backgrounds: Scaling and universality. Funding agency: SERB, Department of Science and Technology, Government of
AWARD RECEIVED	:	NONE
PATENT DETAILS	:	NONE
EXTRACURRICULAR ACTIVITIES	:	Essay and poetry writing.
CAREER PROFILE	:	I completed my B.Sc course (Physics Hons.) from Seth Anandram Jaipuria College, University of Calcutta in 2009. Then I completed my M.Sc. (in Physics) from Presidency college, University of Calcutta in 2011. I secured CSIR rank 83 in NET in 2012. Then I joined Saha Institute of Nuclear Physics as JRF in 2012. I got my Ph.d. degree form University of Calcutta in 2020. I reviewed papers from of Scientific reports and SciPost journals.
ACADEMIC LINK	:	https://scholar.google.com/citations?hl=en&user=jT-wTUkAAAAJ

PUBLICATION

JOURNAL PUBLICATION :

(1) Sudip Mukherjee, Bikas K Chakrabarti, 'Multivariable Optimization: Quantum Annealing & Computation', Eur. Phys. J. Special Topics, Springer Verlag, Germany, February, 2015, 19516401

(2) Sudip Mukherjee, Atanu Rajak, Bikas K Chakrabarti, 'Classical-quantum crossover in the critical behavior of the transverse field S-K spin glass model', Physical Review E, 1 Physics Ellipse College Park, Maryland, USA, October, 2015, 2470-0045

(3) Sudip Mukherjee, Arnab Chatterjee, 'Disorder induced phase transition in an opinion dynamics model: results in 2 and 3 dimensions', Physical Review E, 1 Physics Ellipse College Park, Maryland, USA, December, 2016, 2470-0045

(4) Sudip Mukherjee, Atanu Rajak, Bikas K. Chakrabarti, 'Possible ergodic-nonergodic regions in the quantum Sherrington-Kirkpatrick spin glass model and quantum annealing', Physical Review E, 1 Physics Ellipse College Park, Maryland, USA, February, 2018, 2470-0045

(5) Sudip Mukherjee, Sabyasachi Nag, Arti Garg, 'Many body localization-delocalization transition in quantum Sherrington-Kirkpatrick model', Physical Review B, 1 Physics Ellipse College Park, Maryland, USA, April, 2018, 2469- 9950

(6) Mily Kundu, Sudip Mukherjee, Soumyajyoti Biswas, 'Record breaking statistics near second order phase transitions', Physical Review E, 1 Physics Ellipse College Park, Maryland, USA, August, 2018, 2470-0045

(7) Sudip Mukherjee, Soumyajyoti Biswas, Parongama Sen, 'Long route to consensus: Two stage coarsening in a binary choice voting model', Physical Review E, 1 Physics Ellipse College Park, Maryland, USA, July, 2020, 2470-0045

(8) Sudip Mukherjee, Abhik Basu, 'Dynamic scaling in the quenched disordered classical N -vector model', Physical Review Research, 1 Physics Ellipse College Park, Maryland, USA, September, 2020, 2643-1564

(9) Sudip Mukherjee, Abhik Basu, 'Scaling or multiscaling: Varieties of universality in a driven nonlinear model', Physical Review E, 1 Physics Ellipse College Park, Maryland, USA, March, 2021, 2470-0045

(10) Sudip Mukherjee, 'Conserved Kardar-Parisi-Zhang equation: Role of quenched disorder in determining universality', Physical Review E, 1 Physics Ellipse College Park, Maryland, USA, April, 2021, 2470-0045

BOOK PUBLICATION :

(1) Bikas K. Chakrabarti, Arnab Chatterjee, Asim Ghosh, Sudip Mukherjee, Boaz Tamir, 'Econophysics of the Kolkata Restaurant Problem and Related Games: Classical and Quantum Strategies for Multi-agent, Multi-choice Repetitive Games', Springer, Gewerbestrasse 11, 6330, Cham, Switzerland, March, 2017, 2039-411X

(2) Sudip Mukherjee, 'A Brief Historical Note on the Studies of Quantum Spin Glasses, Annealing and Com- putation Book Chapter in Quantum Spin Glasses, Annealing and Computation', , Cambridge University Press, Delhi, India, January, 2017, 978-1-107-11319-0