



Dr. Anirban Guha

Professor, Head of the Department

Department of Physics, Tripura University
Suryamaninagar, Tripura, India

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Date of birth: 12th November, 1978

Education:

1. Post-Doc from MIT, USA 2012-13 (Fulbright) and 2016-17 (Raman)
2. Ph.D. in Physics, Tripura University, India, 2011
3. CSIR-UGC National Eligibility Test (NET), India, December 2002 and June 2003
4. M.Sc. in Physics, from University of Calcutta, India, 2003
5. B.Sc. in Physics, from University of Calcutta, India, 2000

Professional positions:

Professor, Department of Physics, Tripura University, India from 2nd March, 2022

Associate Professor, Department of Physics, Tripura University, India from 2nd March, 2019

Assistant Professor, Department of Physics, Tripura University, India from 7th September, 2006

Teaching interests:

1. Theoretical: Classical and Relativistic Electrodynamics, Magneto-hydrodynamics and Plasma Physics, Digital Electronics, Digital Communication Systems, Microprocessor, Atmospheric Science
2. Practical: Advanced Analog and Digital Electronic, Digital Communication, Microprocessor Programming

Research interests:

Lightning physics, aerosol radiative forcing, space weather and its effects on ionosphere

Services to students and the home institution:

1. Ph.D. guidance: Completed – 07, Active – 05
2. Principal Investigator of sponsored research projects worth ~ Rs. 500 lakh INR (600k USD)
3. Collaboration with research institutes and universities in India and abroad (USA and Israel)
4. Member of technical and administrative committees, Tripura University, India

Professional honors, awards, and fellowships:

1. Young Scientist's Award 2005, URSI, Belgium
2. First position, DST SERC School, 2005 & 2007
3. Sir Jagadish Chandra Bose Award (2011-12), Tripura State Council for Science & Technology, India
4. Fulbright Post-Doctoral Fellow (2012-13), MIT, USA
5. Member, 34th Indian Scientific Expedition (2014-15) to Antarctica
6. INSA Visiting Fellow 2016, Tel Aviv University, Israel
7. Raman Post-Doctoral Fellow (2016-17), MIT, USA
8. Visiting Scientist, MIT, USA, 2014, 2019, 2022 and 2024 (1.5 months each)
9. Tripura University Faculty award 2021

Publications

100+, for details, visit

<https://scholar.google.com/citations?user=e0Mcm1EAAAAJ&hl=en&authuser=4>

Other professional activities:

1. Paper presenters in national and international conferences and workshops
2. Coordinator of seminar, workshop and refresher courses
3. Reviewer of peer-reviewed journals, research projects

Membership and activities in professional associations:

1. Executive Committee Member, South Asian Lightning Network, Nepal
2. Member, American Geophysical Union, USA
3. Member, National Postdoctoral Association, USA
4. Member, MIT Alumni Association, USA
5. Life Member, Physics Academy of the North-East, India
6. Life Member, Indian Radio Science Society, India
7. Member, Academic Regulatory Committee, Institute of Astronomy Space and Earth Science, India

Community services:

1. Awareness and safety measures from thunderstorm and lightning
2. IT solutions such as computer hardware, software and cyber security, HPC, AIML.
3. Amateur radio operator, CALLSIGN: VU3XIH