



Dr. Anindita Ray

Associate Professor

Department of Physics

Contact Information

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Specialization

- Solid State Physics



**THE BHAWANIPUR
EDUCATION SOCIETY COLLEGE**

Academic Qualifications

Abbreviation of the Degree	Name of the College / University	Class Obtained	Area of Specialization	Year of Passing
Ph.D.	Jadavpur University	Awarded	Thesis Title: Experimental Investigation of Frustrated Magnetic Materials	2001
Post M.Sc. Associateship Diploma	Saha Institute of Nuclear Physics, Kolkata	Qualified	Physics	1992
M.Sc.	Calcutta University	First Class	Physics	1990
B.Sc.	Calcutta University	First Class	Physics (Hons.) Chemistry Mathematics	1988
SLET	W.B.	Qualified	Physics	2001

Position Holding (Full Time)

Designation	Employer	Period of service
Lecturer in physics	The B.E.S. College	1-2-1997 to 1-2-2006
Reader in Physics	The B.E.S. College	1-7-2006 to 1-7-2009
Associate Professor	The B.E.S. College	1-7-2009 to till date

Administrative Assignment

Mentorship of Physics Hons students of The Bhawanipur Education Society College.

Subjects Taught

Physics.



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Journal Publications

- "Magnetic Order In $\text{Fe}_{2-x}\text{Zn}_x\text{MoO}_4$ ($x = 0.1$ to 1) Spinel" Anindita Ray, R. N. Bhowmik, R. Ranganathan, Abhijeet Roy, J. Ghose and Sujeet Chaudhury J. Magnetism and Magnetic Materials Vol. 223 (2001) 39, ISSN: 03048853.
- "Magnetic Properties of $\text{Fe}_{2-x}\text{Zn}_x\text{MoO}_4$ " Abhijeet Roy, J. Ghose, Anindita Ray and R. Ranganathan J. Magnetism and Magnetic Materials Vol. 202 (1999) 359, ISSN: 03048853.
- "Magnetic Properties of $\text{Fe}_2\text{Mo}_{1-x}\text{Ti}_x\text{O}_4$ " Abhijeet Roy, J. Ghose, Anindita Ray and R. Ranganathan Solid State Communications Vol. 103 (1997) 269, ISSN: 0038-1098.
- "Giant Magnetoresistance In The Disorder Magnetic Alloy $(\text{NiFe})_{25}\text{Au}_{75}$ " Anindita Ray, R. Ranganathan and C. Bansal Physical Review B Vol. 56 (1997) 6073, ISSN: 1098-0121(print), 1550-235X(online)
- "An Automated Flux Type Magnetometer Using The Tchebycheff Method Of Numerical Integration" Anindita Ray, A. Chakravarti and R. Ranganathan Review Of Scientific Instruments Vol. 67 (1996) 789, ISSN: 0034-6748.
- "Frustrated Spin-Glass Like Features In KMnFeF_6 System" S. Giri, K. Ghoshray, R. Ranganathan, A. Roy, A. Ghoshray and B. Bal Solid State Communications Vol. 91 (1994) 273, ISSN: 0038-1098.

Participation In Seminars / Webinars / Workshops

- Organised Science Exhibition in BES college on 11th February 2017.
- Organised C.K. Majumder Memorial Workshop on experimental Physics. (8th December to 10th December, 2017).
- Organized a one-day symposium on "Re-Search Physics – From Hands on Experiment to Recent Advanced Technology" on 21st September, 2019.
- Participated in Faculty Development Programme on "Basic Computer Skills" from 21.06.2018 to 29.06.2018 organized by The Bhawanipur Education Society College.





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Participation In Seminars / Webinars / Workshops

- An Invited Talk was organised in collaboration with IQAC dated on 21-9-2022. Topic was "THE DARK AND THE UNBALANCED", speaker Prof. Anirban Kundu, University of Calcutta.
- An Invited Talk was organised in collaboration with IQAC dated 21-11-2022. Topic was "A Journey from Macro to Nano World", Speaker Dr. Upendranath Nandi.
- Organised one day Symposium (Phase II) "From Hands on Experiments to Recent Development in Particle Physics" under the guidance of freelance Educator Mr. Krishnendu Chakraborty on 11-4-2022 in collaboration with the Department of Physics of Jogamaya Devi College, Kolkata and the IQAC of the BES College.
- Participation in the 6 months Experiential Learning Training of Mentoring and Coaching Skills by Ummeed from 27-1-2022 to 14-6-2022.





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Date of the Webinar	Arranged by	Topic
7.9.2019	Dept of Physics, BES College	Geomagnetism
9.9.2019	IQAC Cell of BESC	Workshop on Mentoring Techniques for Teachers.
28.2.2020	Basanti Devi College & Nabagram Hiralal Paul College.	Seminar Cumbria Worksop on Python Computing: Some Applications in Mathematical Physics.
5.6.2020	Environmental Development Committee, BESC	An online Talk on Environment and Climate Concerns: Rethinking Education Strategies
13.6.2020	Computer Science Department, BESC	Webinar on Simplifying Artificial intelligence, Machine Learning and Data Science.
15.6.2020	Mathematics Department, BESC	Webinar on History of Science, Science in History
23.6.2020	Mathematics Department, BESC	Webinar on The Skype and Beyond
25.6.2020, 26.6.2020	Chemistry Department, BESC	Webinar on Pedagogical and Psychosocial Challenges to the Students amidst Covid -19 Catastrophe
26.6.2020	Loreto College	International Webinar on Mapping the Pandemic: Plight of Woman, Migrant Labours and the Human Mind
22/6/20	Dept of Physics, BES College	Saha and His Journey to the Stars





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17/7/2020	Department of Physics, BES college	The enigma of gravity:from apple to black hole.
28/8/2020	Department of Physics, BES college	Neutrino: The Nobel Connection
12/9/2020	Department of Physics, BES college	Nanomedicine: The Future .
30/06/2021	Department of Physics, West Bengal State University	History of Science - An Indian Perspective HSIP21
03/07/2021	Department of Physics, The BES College, IQAC Approved	Application of Quantum Mechanics in Nanomaterials

Other Notable Activities

- As a part of social welfare activity of BES College, the Physics Department along with Statistics organised a visit to Aashiana Happy Home (Home for Homeless) on 16th November, 2019 to meet some of their daily needs.
- We visited to BITM (Birla Industrial and Technical Museum) on 2nd March 2020. Some special class demonstration was also arranged by the BITM authority to provide more insight to science for our students.
- The department of Physics, Electronics, Statistics and Mathematics organized an Social activity Program on 28-9-2022 at Barasat (near Railway station) to the open air school "PRAJAPATIR PATHSHALA".
- Coordinator of Feedback and Survey Committee.





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Vision Statement

- We envisage to empower our students to learn and achieve, to experience high quality teaching practice and the best conditions for learning which equip them with the knowledge, skills and dispositions for lifelong learning and to shape the world around them.
- We shall also endeavour to provide a safe and civil environment fostering cultural consciousness; challenging each of our students to develop socially, emotionally and intellectually to their highest potential prepared for college and career.
- The current challenging situations also have not deterred us from our mission, and we strive to provide them the best education we can by adapting ourselves to the latest technologies.

A handwritten signature in blue ink that reads "Anindita Ray". The signature is written in a cursive style and is set against a light grey rectangular background.

Signature of the
Faculty Member

Date: 01st September, 2022



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