

Faculty Profile

Santipur College

Department of Physics

General Information



Name	Dr. Anita Gangopadhyay
Designation	Associate Professor
Date of joining	22.01.2004
Address	Physics Department Santipur College Santipur, Nadia
Contact E-mail	asb.gangopadhyay@gmail.com
Mobile	9433272553
Academic Qualification	M.Sc, PhD

Research And Publication

Area of Specialization			Application of numerical computational methods in spectroscopic analysis.
Research interest			Quantum Physics, Biophysics
Paper Publication			
Sl. No.	Date	Title	Publisher / Other Information
1	2015	A noisy nutrient induced instability in phytoplankton blooms	International Journal of Current Research and Academic Review Vol. 3, no. 1, pp 51-59 Authors : Tushar Kanti Dey, Anita

			Gangopadhyay and Gautam Gangopadhyay
2	2015	How quantum computation gates can be realised in terms of scattering theory approach to quantum tunneling of charge transport.	International Journal of Current Research and Academic Review , Vol. 3, no. 3, pp 62-66. Authors: Anita Gangopadhyay
3	2015	Kinematics and Entropy Production of force induced Oligomeric enzyme catalysis in a single trajectory: Effect of multiple Substrates	American Chemical Science Journal, 8(4): 1-13, Article no. ACSj. 17117 ISSN : 2249-0205 Anita Gangopadhyay, Biswajit Das, Kingshuk Banerjee, Gautam Gangopadhyay,
4	2000	Formation of anti-hydrogen in presence of laser field in antiproton –positronium collisions	Physica Scripta Vol.61, pp 657-661 Authors : B.Malakar, A. Bandyopadhyay, M. Bhattacharya.
5	1999	The ground state energy of the negative positronium atom PS(-)	Ind. J. Phys. Authors: A.Bandyopadhyay, S. Sahoo and N.C.Sil
6	1999	The ground state energy of helium isoelectronic series	Ind. J. Phys. 73B, , p25 Auhors: A.Bandyopadhyay, S. Sahoo T.K.Mitra and N.C.Sil
7	1998	Studies on positron-hydrogen ionization cross section	Ind. J. Phys. , 72B, , p11. Authors: A. Bandyopadhyay, P.K.Dutta, K.Roy ,P.Mandal and N.C.Sil.
8	1996	Helium atom revisited	Ind. J. Phys. 70B, p93 Authors: S. Sahoo, A. Bandyopadhyay, T. K. Mitra and N. C. Sil.
9	1995	Single differential and total ionization cross section of hydrogen atom by electron impact	Phys. Rev. A , 51, p2151 Authors: A. Bandyopadhyay, K.Roy, P. Mandal and N. C. Sil
10	1994	Ionization of atomic hydrogen by positron impact	J. Phys. B, 27, p4337. Authors: A. Bandyopadhyay , K.Roy, P. Mandal and N. C. Sil
11	1994	Total ionization cross section of atomic hydrogen by positron impact	Phys. Lett. A, 188, p164 Authors: A. Bandyopadhyay , K.Roy, P. Mandal and N. C. Sil
12	1994	Triple differential ionization cross section of hydrogen atom by	Zeit. Phys. D, 30, p35. Authors: Anita Bandyopadhyay, K. Roy and N. C. Sil.

		e+/e- impact including exchange	
13	1993	Excitation of hydrogen atom in the high energy region	.Ind. J. Phys. 67B, p265 Authors: A. Bandyopadhyay , K.Roy and S. C. Mukherjee.
Books/ Reports/Chapters/General articles etc.			
Sl. No.	Date	Title	Publisher/ Other information
1	October 2011	Ionization of Hydrogen Atom by electron and Positron	Lahor Publication House, ISBN : 978-81-9294759-4
2	Nov. 2012	Dissipation in Quantum Dot Systems	Lahor Publication House, ISBN : 978-81-9294759-4
Talks/ Paper or Poster Presentations/ Chairing Sessions/ Seminar/ Webinar/ Workshop/ RC/ OP/ Short term Course/ Any Other attended			
Sl. No.	Date	Title /Event	Place /Organiser/ Other Information
1	22.08.2015	Dept. of Physical Chemistry, Indian Association for the Cultivation of Science	Paper Presentation
2	03.09.2010 - 04.09.2010	Combating the threat of Climate Change : Redemption for Humanity	State Level Seminar Organised by Chakdaha College, Chakdaha, Nadia
3	11.11.2011	C.K.Majumder Memorial Workshop on Condensed Matter Physics	Organised by Dept. of Theoretical Physics, Indian Association for the Cultivation of Science, Kolkata
4	25.11.2011	UGC sponsored National Level Seminar: Acharya Prafulla Chandra Roy: Re-Evaluation of Life and Works on his 150 th Birthday Anniversary	Organized by Dept. of Chemistry, Chakdaha College, Chakdaha, Nadia
5	31.12.2013	Condensed Matter Physics and Materials	One Day Conference Organized by Dept. of Physics, University of Kalyani
6	19.02.2014	Recent Trends in Physics	Organized by Dept. of Physics, Aliah University, Kolkata

7	02.04.2015	Quality Assurance in Higher Education	Organized by Santipur College, Santipur, Nadia
8	21.08.2015 - 22.08.2015	A Discussion Meeting on Perspective in Teaching and Research in Physical Chemistry- 2015	Presentation of Poster Organized by Dept. of Physical Chemistry , Indian Association for the Cultivation of Science, Kolkata
9	07.01.2016 - 08.01.2016	CU Physics Centenary : Historical Highlights	Organized by the Dept. of Physics, Calcutta University

Institutional Responsibilities

Portion of syllabus allotted		
Semester	Major/ Minor/ SEC/ MDC/ Other	Topic allotted
Semester 1	Major	Mathematical Physics Programming
Semester 2	Major	Mechanics Non-Inertial Systems Special Theory of Relativity
Semester 3	Major	Electricity and Magnetism Dielectric Properties of Matter Growth and decay of currents and voltages in L-R, C-R, L-C-R circuits Practical
Semester 4	Major	Wave Optics and Electromagnetic Theory Nature of light Interference Diffraction Fraunhofer diffraction Fresnel Diffraction
Semester 5	Major	Classical Dynamics Special Theory of Relativity: The Electromagnetic field tensor and its transformation Python programming for solving the problems based on Statistical

		Mechanics and Quantum Mechanics
Semester 6	Major	Electromagnetic Theory Maxwell Equations EM Wave Propagation in Unbounded Media EM Wave in Bounded Media: Practical
Institutional Committees		
Sl. No.	Name of Committee	Member / Convener
1	Leave Committee	Convener
2	Website Upgradation Committee	Member
3	Grievance Redressal Committee	Member
4	Service Book and Pension Committee	Invitee Member
5	Library Committee	Member