



BARASAT GOVERNMENT COLLEGE

TEACHER'S PROFILE

DR ABHIJIT DE, DEPARTMENT OF PHYSICS

- **DESIGNATION** : Associate Professor
- **QUALIFICATION** : M.Sc., Ph.D.
- **DATE OF JOINING THE SERVICE** : Jul 23, 1996
- **DATE OF JOINING THE INSTITUTION** : May 11, 2021
- **ADDRESS FOR COMMUNICATION** : Department of Physics, Barasat Government College, Barasat, 10, K. N. C. Road Kolkata-700124
- **PHONE NO** : 033 2552 3365
- **EMAIL ADDRESS** : ABHIJIT.DE@bgc.ac.in
- **SPECIALIZATION** : Materials Physics
- **TEACHING EXPERIENCE** : UG Teaching-25 years, PG Teaching-16 years.
- **COLLEGE SERVED** : (1) ABN Seal College, Coochbehar-July 1996 till Feb 2002-5 years & 6 months
(2) Presidency College, Kolkata-Feb 2002 till April 2013- 11 years & 2 months
(3) Taki Government College, Taki-April 2013 till May 2021-8 years & 1 month
(4) Barasat Government College, Barasat-May 2021 till date-7 months

<p>➤ ACADEMIC AND ADMINISTRATIVE EXPERIENCE</p>	<p>: Research Experience-Since 1986-35 years, Teaching Experience-25 years, As Head of Physics Department-April 2013 till May 2021-8 years.-</p>
<p>➤ TOPICS TAUGHT</p>	<p>: Acoustics, General Properties of Matter, Electricity & Magnetism, Condensed Matter Physics</p>
<p>➤ AREA OF RESEARCH & INTEREST</p>	<p>: Development of Materials for Opto-Electronic Devices, Interdisciplinary Applications in Thrust areas, Thin Film Devices, Polymer Physics & Nanomaterials.</p>
<p>➤ ONGOING PROJECT DETAILS</p>	<p>: NONE at present. Completed UGC Minor Project in 2002-2004.</p>
<p>➤ AWARD RECEIVED</p>	<p>: CSIR Senior Research Fellow-1994 to 1996, UNDP-UNIDO Fellow in 1993, Tokyo Institute of Technology, Tokyo, Japan</p>
<p>➤ PATENT DETAILS</p>	<p>: NONE</p>
<p>➤ EXTRACURRICULAR ACTIVITIES</p>	<p>: Research in Interdisciplinary Areas, Experimental Physics</p>
<p>➤ CAREER PROFILE</p>	<p>: B. Sc. (1983) & M. Sc. (1985) in Physics - M S University, Baroda, Gujarat; Common Exam for Reaserch Admission-IIT, Madras (1985), Ph. D. (1992) Calcutta University; Invited Oral Presentation in 3rd Thailand Nanotechnology International Conference, Bangkok, Thailand (21-22 December 2009)- Topic:Assembly of Magnetic Nanoparticles in Polymer Matrix. Resource Person-INSPIRE, DST, Govt. of India for KVPY Projects since 2010, Senior Mentor (2008) Dr D. S. Kothari Post Doctoral Fellowship of UGC of Dr Namita Dutta Gupta, Research Associate, Teachers Data Base-Indian Academy of Sciences, Bangalore since 2003. Life Members of Materials Research Society of India (MRSI), Bangalore, Indian Association for the Cultivation of Sciences (IACS), Kolkata, Solar Energy Society of India (SESI), Delhi and Indian Association of Physics Teachers (IAPT), Kanpur.</p>
<p>➤ ACADEMIC LINK</p>	<p>: (1) https://www.researchgate.net/profile/Abhijit-De-5 (2) https://scholar.google.com/citations?user=ixYrrk0AAAAJ&hl=en</p>

PUBLICATION

JOURNAL PUBLICATION :

- (1) De Udayan, Sahu Kriti Ranjan and De Abhijit, 'Ferroic Materials for High Temperature Piezoelectric Applications', Solid State Phenomena, Trans Tech Publications, June, 2015, ISSN: 1662-9779
- (2) Prasad Shiv Govind Prasad, De Abhijit and De Udayan, 'Structural and Optical Investigations of Radiation damage in transparent PET polymer films', International Journal of Spectroscopy, DOI:10.1155/2011/810936, April, 2011, DOI: 10.1155/2011/810936
- (3) Chakraborty K. R., Sahu K. R., De Abhijit and De Udayan, 'Structural Characterization of Orthorhombic and Rhombohedral Lead meta-niobate samples', Integrated Ferroelectrics: An International Journal, November, 2010, ISSN: 1058-4587 print/1607-8499 online
- (4) Bhattacharjee A., Roy D., Roy M., Chakraborty S., De Abhijit, Kusz J., and Hofmeister W., 'Rod-like ferrites obtained through thermal degradation of molecular ferrimagnetic', Journal of Alloys and Compounds, August, 2010, ISSN: 0925-8388
- (5) Dutta Gupta N., Sahu K. R., Das I., De Abhijit, and De Udayan, 'Synthesis and Study of electroactive nanoparticles and their polymer composites for novel applications', Indian Journal of Physics, DOI:10.1007/s12648-010-0133-9, December, 2010, ISSN:0974-9845 print ISSN 0973-1458
- (6) Pal Mrinal and De Abhijit, 'Polymer-Iron Oxide based Magnetic Nanocomposites', Handbook on Hybrid Nanocomposites for Nanotechnology: Electronic, Optical, Magnetic, and Bio/Medical Applications, Ed. Lhadi Merhari, CERAMEC, France-SPRINGER-VERLAG, Printed in USA, April, 2009, ISBN: 978-0-387-72398-3(Print) 978-0-378-30428-1(Online)
- (7) Wenas W. W., De Abhijit, Yamada A., Konagai M., and Takahashi K., 'Optimization of ZnO for front and rear contacts in a-Si Solar Cells', Solar Energy Materials and Solar Cells, Elsevier Science B. V., April, 1994, SSDI:0927-0248(94)00047-V
- (8) Ghosh Sukriti, De Abhijit, and Ray Swati, 'Microcrystalline Silicon Carbon Alloy Films prepared by photo-Chemical Vapour Deposition', Thin Solid Films, Elsevier Sequoia, August, 1994, SSDI: 0040-6090(93)02979
- (9) Banerjee R., De Abhijit, Ray S., Barua A.K., and Reddy S. R., 'Hydrogen plasma degradation of SnO films prepared by APCVD method', Journal of Physics D:Applied Physics, IOP Publishing Ltd., U.K., November, 1993, <http://iopscience.iop.org/0022-3727/26/12/008>
- (10) Ghosh S., De Abhijit, Ray S., and Barua, A., 'Role of hydrogen dilution and diborane doping on the growth mechanism of p-type microcrystalline silicon films prepared by photo-CVD', Journal of Applied Physics - AIP, May, 1992, Secure download 0021-8979/92/105205-07



BOOK PUBLICATION

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