

FACULTY FORMAT



Name : **Dr. Amit Kumar Dutta**

Department : CHEMISTRY

Educational Qualification : M.Sc. (Chemistry), Ph.D. (Science)

Contact No. : 9831424850

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Area of Specialization : Inorganic Chemistry, Nano-material
Chemistry

Research Interest : See Bio-Data

Teaching : Under Graduate Chemistry both Honours
and General Courses

Awards : Junior/Senior Research Fellowship(JRF/SRF)
and Research Associate-ship (RA)

Professional Membership : Life Member of Indian Association for the
Cultivation of Science, Jadavpur, Kolkata

Important Publication : See 'List of Publication'

Collaborations : **Prof. Bibhutosh Adhikary**
Professor
Department of Chemistry,
Indian Institute of Engineering Science and Technology
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Personal Information's:**Name** : DR. AMIT KUMAR DUTTA**Designation** : Assistant Professor**Sex** : Male**Date of birth** : 24th May, 1984**Address (Residence)** : Asha Mahal, 97/1, Kashi Nath Chatterjee Lane,
Shibpur, Howrah, Pin-711102, West Bengal, India**Address (Work)** : Department of Chemistry
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West Bengal, India**Phone / Mobile** : +91 9831424850 (M), +913326783522 (Res)**Email** : amtdtta@rediffmail.com, akdutta84@gmail.com**Nationality** : Indian**Educational Qualifications:**

Name of Examinations passed	Name of Board/University/ Institute	Division/ Class	Year of passing	Subject(s) taken
10 th Standard (Madhyamik)	WBBSE/ Jenkins School, Cooch Behar	1st	2000	Bengali, English, Mathematics, Physical Sc, Life Sc, History, Geography, Work education
12 th Standard (Higher Secondary)	WBCHSE/ Vivekananda Institution, Howrah	1st	2002	Bengali, English, Mathematics, Physics, Chemistry, Biology
B.Sc	University of Calcutta/ Asutosh College, Kolkata, India	2 nd	2005	Chemistry (Honours), Mathematics, Physics, Bengali, English, environmental Science
M.Sc	University of Calcutta/ University Collage of Science, Technology & Agriculture (Rajabazar), Kolkata, India	1 st	2007	Inorganic Chemistry (Specialization)
Ph.D in Science	Bengal Engineering and Science University, Shibpur, Howrah, India	-	2012	Inorganic Chemistry, Nano-material Chemistry

Fellowship and Awards:

- Awarded **Junior and Senior Research Fellowship (JRF/SRF)** in the subject of Chemical Sciences in **2007** through joint CSIR–UGC test (NET) conducted by Council of Scientific and Industrial Research (CSIR), New Delhi, India.
- Awarded **Research Associate Fellowship (RA)** in the subject of Material Sciences (CHEM-24) in **2013** through interview conducted by Council of Scientific and Industrial Research (CSIR), New Delhi, India.

Title of thesis for doctoral degree: Structural and magnetic properties of polynuclear iron(III) complexes and their use in synthesis of catalytically active iron oxide, sulfide and selenide nanomaterials

Research Experience:

Name of Institution/office	Full time/Part time	Particulars in full	From (Date)	To (Date)
Bengal Engineering and Science University, Shibpur, Howrah	Full time	Doctoral (JRF and SRF)	01.02.2008	17.10.2012
Bengal Engineering and Science University, Shibpur, Howrah	Full time	Post-Doctoral	18.10.2012	31.03.2013
Indian Institute of Engineering Science and Technology (Formerly Bengal Engineering and Science University) Shibpur, Howrah	Full time	Research Associate (CSIR-RA)	01.04.2013	31.03.2015

Research Interests:

- Synthesis, characterization and magnetic properties of metal–ligand coordination complexes.
- Using these coordination complexes as single source precursor, preparation of nano-sized binary and ternary metal oxide, sulphide and selenide materials.
- Evaluated their various catalytic activities such as photocatalytic activity, peroxidase–like behavior through the degradation of organic pollutants in presence of visible light and catalytic oxidation of peroxidase substrates in presence of hydrogen peroxide.
- Using these nanostructured peroxidase mimetics colorimetric detection and estimation of hydrogen peroxide and glucose.
- The potential use of metal oxide, sulphide and selenide nanomaterials as amperometric sensors for hydrogen peroxide and glucose.

- Binary and ternary metal chalcogenide nanomaterials as thermoelectric, magnetic, sensor, catalyst and photovoltaic enhancing entities so that we can use solar energy in a broad way of power supply based on solar cell because of the gradually waning stage of natural fuel sources.