

Name: Dr. Pradyut Sarma
Present position: Assistant Professor (Selection Grade)
Residential Address: C/O Late Nagendra Nath Sarma
P.O Gopinath Naga
Dharma Sarma Path (Birubari), H.N: 80
Guwahati, Assam, PIN: 781016
E-mail: ps_avc@mail.com
Date of joining: 08-09-2000
Date of Birth: 29-01-1975

Education Qualifications

Name of Examination	Board/University	Year	Rank	Division
HSLC	SEBA	1991		I
Intermediate (10+2)	AHSEC	1993		I
B.Sc.	Gauhati University	1996		I
M.Sc.	Gauhati University	1998		1
Ph.D.	Gauhati University	2011		
National Eligibility Test	UGC	2001		

Ph.D. Topic: “Spectroscopic and electrochemical studies of the interaction of metal complexes with phenolate substrate encapsulated in aqueous surfactant micelles”

Details of professional training and research experience, specifying period

- (i) Research Experience: 12 Years
(iii) Teaching Experience: (a) UG: 16 Years
(b) PG: 01 years

List of publications (Last Five Years)

- (i) **P. Sarma**, P. K. Boruah, S. K. Baruah and O. K. Medhi, “Electrochemical and electron paramagnetic resonance evidence for semiquinone radical in the cleavage of catechol by Schiff base complex of Ru(III) in aqueous surfactant micelle”, *Int. J. chem. Res.*, **2011**, *2*, (2), 135.
- (ii) **P. Sarma**, P. K. Baruah and O. K. Medhi, “Spectroscopic and electrochemical analysis of the interaction of DBCH₂ with Fe(III) complexes of N-Salicylidine-L- amino acids in aqueous micellar medium”, *J. Surface Sci. technol.*, **2011**, *27*, 135.
- (iii) **P. Sarma** and O. K. Medhi, “Electrochemical study of interaction of 3,5-ditertiary butyl catechol with Fe(III) complexes N-Salicylidine-L- amino acids” *Curr. Res. Chem.*, **2011**, *3*, 87.
- (iv) S. K. Baruah, **P. Sarma**, P. K. Baruah, O.K. Medhi, “Green synthesis of gold nanoparticles using camellia sinensis and kinetics of the reaction ” *Adv. Mat. Lett*, **2012**, *3(6)*, 481.
- (v) S. K. Baruah, **P. Sarma** and O.K. Medhi, “Exfoliation of graphene oxide nanosheets from pencil lead and in situ preparation of gold nanoparticles on graphene oxide nanosheets” *Int. J. Nano Sc.*, **2013**, *12*, 1350034.
- (vi) **P. Sarma**, P. K. Baruah and O. K. Medhi, “Spectrophotometric determination of the stability constant of iron Schiff base with cyanide ligand in aqueous micellar medium” *J. Ind. Chem. Soc.*, **2014**, *91*, 1041.

(vii) **P. Sarma** and O.K. Medhi, Interaction of iron Schiff base complex with orthoamino phenol in aqueous surfactant micelles – an electrochemical and spectroscopic analysis

J. Ind. Chem. Soc., **2014**, 91, 1675.

(viii) **P. Sarma**, “Kinetic Study of Interaction of *Ortho*-Aminophenol with Fe(III) Schiff Base Complex in Aqueous Surfactant Medium” *Asian J. Chem.*, **2015**, 27,325.

(ix) **P. Sarma**, “Interaction of catechol with Fe(III) tripodal ligand complex in aqueous surfactant medium: A kinetic approach”. *J. Ind. Chem. Soc.*, **2016**, 92, 1976.

Projects Completed:

Minor Research Projects

Sl. No	Title	Agency	Period	Amount (Rs)
i	Spectroscopic and electrochemical studies of Fe(NTA)(H ₂ O) ₂ complex encapsulated in surfactant micelle	UGC	2 years (19/11/05 -- 18/11/07)	75,000
ii	Interaction of metal complex [Fe(salenH ₂)] with phenolate substrate of surfactant micelle- a model study of catalytic oxidation	UGC	2 years (31/03/08 -- 31/03/10)	85,000
iii	Redox and Spectroscopic Analysis of the Interaction of Fe(III) complex of N Salicylidene-L-Amino Acids with Phenolate Substrate- Iron(III) Tyrosinate Models	UGC	18 months (06/08/12 to 06/02/14)	2,00,000

Membership:

- (i) Life member of Assam Science Society
- (ii) Life member of Indian Chemical Society of India (National level)
- (iii) Life member of Indian society for surface science and technology

Referee of the Journals

Journal of Indian Chemical Society, India

Participation

Sl. No.	Title of conference/ seminar/Workshop	Date	Organized by	Status
1	Nations Symposium on Current Trends in Chemical Research.	27/02/2004 --28/02/2004	Gauhati University	National
2	Workshop on "Question Paper Setting"	13/06/2005	Assam Higher Secondary Education Council at Arya Vidyapeeth College	State
3	Workshop on Nanotechnology	15/09/2005	Gauhati University	National
4	Microscale Chemistry Workshop	10/05/2005	Gauhati University	National
5	National Workshop on Computers in Chemistry	05/06/2006-- 07/06/2006	Cotton College	National
6	Workshop on Chemistry Education: Past, Present and Future.	05/05/2006	Gauhati University	National

Presentation

Sl. No.	Title of conference/seminar/Workshop	Date	Organized by	Status
1	11 th Symposium on Modern trends in Inorganic Chemistry (MTIC-XI)	08/12/2005 --10/12/2005	IIT, Delhi	International
2	National Conference on Disperse Systems	23/11/2006 --25/11/2006	Assam University	National
3	Indian Science Congress	03/01/2007 --07/01/2007	Annamalai University	International
4	12 th CRSI National Symposium in Chemistry	04/02/2010 --07/02/2010	Indian Institute of Chemical Technology, Hyderabad	International
5	49 th Annual Convention of Chemists	12/12/2012 --15/12/2012	Indian Chemical Society at NITTTR, MP	National
6	52 nd Annual Convention of Chemists	28/12/2015 -- 30/12/2015	Indian Chemical Society at JECRC University	International

Course attended

Sl. No	Course	Subject	Institute	Date	Duration
1	Orientation Course	Interdisciplinary	Academic Staff College, G. U.	30/01/2006 --26/01/2006	28 days
2	Refresher Course	Environmental Studies	Academic Staff College, G. U.	02/06/2008 --22/06/2008	21 days
3	-do-	Chemistry	Academic Staff College, H. P. University	29/11/2010 --18/12/2010	21 days
4	-do-	Chemistry	Academic Staff College, NEHU	22/03/2012 --11/04/2012	21 days
5	Short Term course	Reforms in Higher Studies	Academic Staff College, G. U.	08/12/2014 --14/12/2014	7 days

Participation in corporate Life:

- (i) Served as Asstt. Returning officer in AVC Student election, 2016
- (ii) Served as Convener in College Admission Committee
- (ii) Member of Examination Branch, A.V. College
- (iv) Member of College Admission Committee
- (v) Member of Hostel Development committee
- (vi) Member of Steering committee of Giridhar Sarma Memorial Lecture, 2010
- (vii) Member of food committee of Giridhar Sarma Memorial Lecture, 2010 to 2013
- (viii) Officer In-charge of Minor Games of AVCSU from 2001 to 2006