

Teacher Profile for NAAC Assessment



- Name Dr. Sushmita Chowdhury
- Department Chemistry
- Designation Associate Professor
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Educational Qualifications			
Qualification	Title/Course	University	Year
Undergraduate	B.Sc. (Hons) Chemistry	Delhi	1975
Postgraduate	M.Sc Chemistry	Delhi	1977
M.Phil.	Chemistry	Delhi	1978
Ph.D.	Spectrophotometric Investigations on Metal Complexes of 2- (4-amino-3-1,2,4, triazolylazo)Naphthol-4-sulphonic Acid	Delhi	1982
Any other			

Career profile		
Teaching Experience in years	Area of Specialization	Courses and Subjects taught
32	Inorganic Chemistry	B.Sc (Hons) and B.Sc (Programme) Specialised topics in Inorganic Chemistry including coordination chemistry, organometallics and bioinorganic chemistry.

Research Undertaken			
Major Projects	Minor Projects	Collaborative Projects	
	Summer research Projects with students under star college scheme are regularly carried out Mentor for students performing original research for Pathfinder competition	Innovative project awarded by University of Delhi 2014	

Publications:

1. Wealth from waste: a green method to produce biodiesel from waste cooking oil and generation of useful products from waste further generated” a social awareness initiative” Indu Tucker Sidhwani, Geeta Saini, Sushmita Chowdhury, Dimple Garg, Malovika, Nidhi Garg *DU Journal of Undergraduate Research and Innovation, Vol 1, Issue 1, Pg.131-151, 2014, ISSN 2395 – 2334.*
2. Green Analysis for Cations without H₂S and other Sulfur Compounds. *Indu Tucker Sidhwani and Sushmita Chowdhury, (Journal of Chemical Education Vol. 85, 1099, 2008)*
3. Spectrophotometric Study of Some Bivalent Metal Complexes of Sodium 1,2-Naphthoquinone- 4- Sulphonate- 2- Semicarbazone. *Sushmita Mukherjee, B.S. Garg and R.P. Singh (Acta Ciencia Indica, Vol. IXC, 4, 1983)*
4. Stability Constants and Related Thermodynamic Functions of Some Rare-Earth Metal Complexes of Sodium- 2- [4- amino- 3- (1,2,4- triazolylazo)]- Naphthol- 4- Sulphonate. *Suresh K. Garg, Sushmita Mukherjee, B.S. Garg and R.P. Singh (Journal of Indian ChemSoc, Vol. LIX. 1038. 1982)*
5. Spectrophotometric Determination of Copper in Alloys using Sodium- 2- [4- amino- 3- (1,2,4- triazolylazo)]- Naphthol- 4- Sulphonate. *Sushmita Mukherjee, Suresh K. Garg, B.S. Garg and R.P. Singh (An. Quim, Vol.77B, 273, 1981)*
6. Stability Constants of Some Bivalent Metal Complexes of Sodium- 2- [4- amino- 3- (1,2,4- triazolylazo)]- Naphthol- 4- Sulphonate. *Suresh K. Garg, Sushmita Mukherjee, B.S. Garg and R.P. Singh (Indian Journal of Chemistry, Vol. 20A, 535, 1981)*
7. Stability Constants and Related Thermodynamic Functions of Some Bivalent Metal Complexes of Sodium 1,2-Naphthoquinone- 4- Sulphonate- 2- Semicarbazone. *Sushmita Mukherjee, Suresh K. Garg, B.S. Garg and R.P. Singh (Indian Journal of Chemistry, Vol. 19A, 277, 1980)*
8. Selective Spectrophotometric Determination of Zinc with Sodium- 2- [4- amino- 3- (1,2,4- triazolylazo)]- Naphthol- 4- Sulphonate. *Sushmita Mukherjee, Suresh K. Garg, B.S. Garg and R.P. Singh (Afinidad, Vol.17, 454, 1980)*
9. Sodium- 2- [4- amino- 3- (1,2,4- triazolylazo)]- Naphthol- 4- Sulphonate : A New Reagent for The Simultaneous Determination of Cobalt and Nickel and for Estimation of Nickel in Hydrogenated Oils. *Sushmita Mukherjee, Suresh K. Garg, B.S. Garg and R.P. Singh (Chemistry and Industry, 106, 1980)*
10. Spectrophotometric Determination of Palladium with Sodium- 2- [4- amino- 3- (1,2,4- triazolylazo)]- Naphthol- 4- Sulphonate. *Sushmita Mukherjee, B.S. Garg and R.P. Singh (Annali di Chimica, 481, 1980)*

Publication/s		
Books Written	Chapters Written	Books/Chapters Edited
Basic Chemistry Class Xi Basic Chemistry Class XII Currently marketed as WBCHSE Basic Chemistry (West Bengal Board) Bharti Bhavan	Chemistry of s and p block Elements E book published by niscair, ministry of HRD Contributed Study material on Volumetric analysis and Chromatography for e manual by Institute of lifelong Learning Currently involved in preparation of study material for MSc Environmental Chemistry (e Pathshala, UGC)	Adapted the book Inorganic Chemistry, Miessler and Tarr Pearson Publications Contributed the chapter on Extraction of Metals

Current Research Experience:

- 1 "A Green chemistry approach to combat stress in the undergraduate chemistry laboratory". In collaboration with Department of Psychology 2013-14
- 2 A Green and Sustainable Chemistry Laboratory...A Distant Dream... or a Reality. In collaboration with Department of Psychology 2015-16

Under star status grant, also involved in improving the existing lab experiments and also designing new green experiments for undergraduate and post grad

Awards and Scholarships

Silver Jubilee Scholarship for Best All Round Student, Miranda House (1974 – 75)

Distinguished Teacher Award by Vice Chancellor, University of Delhi (2009)

Teaching Excellence Award for Innovation (2015) of University of Delhi.