


**HANS RAJ COLLEGE  
UNIVERSITY OF DELHI  
FACULTY PROFILE**

Title	DR	First Name	SHAMPA	Last Name	BHATTACHARYA	Photograph
<b>Designation</b>	<b>ASSOCIATE PROFESSOR</b>					
<b>Address</b>	<b>Department of Chemistry, Hansraj College, University of Delhi. Delhi 110 007</b>					
<b>Phone No . Office</b>	<b>011 – 2766 7548</b>					
<b>Residence</b>	-					
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<b>Email</b>	<a href="mailto:shampa4@gmail.com">shampa4@gmail.com</a> ; <a href="mailto:shampa@hrc.du.ac.in">shampa@hrc.du.ac.in</a>					
<b>Web-Page</b>	-					
<b>Educational Qualifications</b>						
<b>Degree</b>	<b>Institution</b>				<b>Year</b>	
<b>Ph.d</b>	<b>Department of Chemistry, Jadavpur University</b>				<b>1994</b>	
<b>M.Sc (Chemistry)</b>	<b>Department of Chemistry, Jadavpur University</b>				<b>1986</b>	
<b>B.Sc (H) Chemistry</b>	<b>Department of Chemistry, Jadavpur University</b>				<b>1984</b>	
<b>Post Doc</b>	<b>University of Geneva</b>				<b>2006-2007</b>	
<b>Career Profile</b>						
<ol style="list-style-type: none"> <li>1. Associate Professor in Hansraj college from 1996 to till date.</li> <li>2. Postdoctoral Fellow, Department of Physical Chemistry, University of Geneva, 2006-07.</li> </ol>						
<b>Administrative Assignments</b>						

1. **Teacher in charge - 2014-2015**
2. **Convenor -Chemical Society - 2011-2012, 2012-2013**
3. **Superintendent (Theory Exam) - 2012, 2013, 2016**
4. **Secretary Staff Council - 2014-2015**
5. **DBT Departmental Coordinator - 2014 - till date**

#### **Areas of Interest / Specialization**

**Physical Chemistry and Theoretical Chemistry**

#### **Subjects Taught**

##### **Undergraduate level**

1. **B.Sc (H) Chemistry – Ist year, IInd Year, IIIrd Year**
2. **B.Sc (Life Science) - Ist year, IInd Year, IIIrd Year**
3. **B.Sc (Physical Sciences) - Ist year, IInd Year, IIIrd Year**
4. **B.Sc(H) Physics - Ist year**
5. **B.Sc (Applied Physical Science) - Ist year, IInd Year, IIIrd Year**
6. **B.Sc (Anthropolgy)**
7. **B.Sc (Botany)**
8. **B.Sc (Geology)**
9. **B.Sc (Maths)**

##### **Topics undertaken**

**Gaseous State, Liquid State, Solid State, Ionic equilibrium, Chemical Thermodynamics, System of Variable Composition, Chemical Equilibrium, Solutions, Colligative Properties, Phase Equilibria, Surface Chemistry, Conductance, Chemical Kinetics, Quantum Mechanics, Molecular Spectroscopy, Application of Computers in Chemistry, Molecular modeling.**

#### **Publications Profile**

1. Lifetimes of nonmetastable rotational levels of H<sub>2</sub> in  $c^3\pi_u(v=0)$  state, **Shampa Bhattacharyya and Dilip K. Bhattacharyya, The Journal of Physical Chemistry, 97,4899-902,1993. Impact factor= 3.177, Citation=5**
2. Photon induced atomic florescence from alkali dimers, **Shampa Bhattacharyya and Dilip K. Bhattacharyya, The Journal of Physical Chemistry, 100, 11246-49, 1996.**

Impact factor=3.177, Citation=1

3. The forbidden radiative transitions with  $\Delta S \pm 1$  in small homonuclear diatomic molecules, **Shampa Bhattacharyya and Dilip K. Bhattacharyya, The Journal of Chemical Physics, 107, 1128-36, 1997.** Impact factor=2.965.
4. A study on the beedi industry in india: employment diversification for the new millennium, **Shampa Bhattacharyya and Manas Bhattacharyya, ILO, New Delhi (2000).** Citation =6.
5. Environmental effects of rural industrialization in India, **Shampa Bhattacharyya and Manas Bhattacharyya, SAAT WORKING PAPERS, International Labour Organization ILO, June 2000.** Citation =2.
6. Production efficiency in small enterprise, **Shampa Bhattacharyya and Manas Bhattacharyya, SAAT WORKING PAPERS, International Labour Organization ILO, 1997.**

#### Projects

1. **Experimental and Theoretical Verification of 1D-Particle in a Box Using Carotenoids.**
2. **Design and optimization of cost effective automated calibrated intensity sensor cell.**

#### Conference Organization/ Presentations

1. Attended UGC sponsored 3 week **refresher course in chemistry at Institute of Lifelong Learning, 2009.**
2. Participated in 4 week **refresher course in environmental science, Jawaharlal Nehru University, 2001.**
3. Participated in 4 week **orientation course in natural sciences, Jawaharlal Nehru University, 1998.**
4. Inspire Internship program 2012, **Resource person, organizing committee, Hansraj College, University of Delhi, 17-21 December 2012.**
5. Chemistry in Interdisciplinary Application, UGC sponsored **one day National Seminar, Organizing Secretary, Department of Chemistry, Hans Raj College, 19 March 2013.**
6. **Organizing Member in DBT sponsored workshop on Relevance of Experimental**

**chemistry to Biotechnology from March 12 to March 12, 2014 held at Department of Chemistry, Hansraj College.**

- 7. Application of analytical techniques in biochemistry, Convenor, DBT workshop, organizer, 15-17 July 2015.**
- 8. Participated in MHRD funded “National Workshop on Role of Technical Terminology in Higher Education” (23-24 July, 2015) in Hansraj College, University of Delhi.**
- 9. Simulation of pathological test for UTI in the laboratory, Convenor, DBT workshop, Organizer, Saturdays, 16 January-6 February 2016.**
- 10. Organizing Member in Indo-Portuguese Workshop on Emerging Trends of Nanotechnology in Chemistry and Biology organized by Department of Chemistry, Hansraj College and Deshbandhu College in association with CQM University of Madeira, Portugal from 12<sup>th</sup> to 13<sup>th</sup> February 2016.**
- 11. Organizing Member in the National Seminar on “Role of Analytical Sciences in Sustainable Development organized by Hansraj college and ISAS – DC Petrotech Society of India held at Hansraj College from 4 to 5<sup>th</sup> March 2016.**
- 12. Resource Person for “One Day workshop on Chemical Laboratory Working Skills And Safety Education organized for Non Teaching Staff of Chemistry Staff organized by IQAC and Department of Chemistry on 17<sup>th</sup> July 2017”**
- 13. Resource person for DBT sponsored workshop on “Lab Analysis of Water Quality Parameters on 18<sup>th</sup> September 2017 in department of Chemistry, Hansraj College.**
- 14. Resource person in the INSPIRE Programme (DST) held at Hansraj College, University of Delhi from 12<sup>th</sup> December 2017 to 16<sup>th</sup> December 2017.**
- 15. Participated in “Emerging Trends and Advances in Chemical Sciences (ETACS) from 25<sup>th</sup> to 26<sup>th</sup> September 2018 organized by Chemistry Department, St Stephen’s College.**
- 16. Member of Organizing Committee for 1<sup>st</sup> International Conference on Integrative Chemistry, Biology and Translational Medicine organized by Centre for Global Health, Hansraj College University & Loyola University Chicago Stritch School of Medicine, USA from 25<sup>th</sup> to 26<sup>th</sup> February 2019.**
- 17. Participated in Two Days Faculty Development Programme on “Agriculture Health**

and Society” from 15<sup>th</sup> to 16<sup>th</sup> March 2019 organized by Mahatma Hansraj Faculty Development Centre, Hansraj College.

18. Resource Person for Workshop on “Hands on Training Programme for Laboratory Staff” held on 13<sup>th</sup> June and 15<sup>th</sup> June 2019 at Department of Chemistry, Hansraj College.

19. Organizing Member in the National Seminar on “Environment and Sustainability in the third world” organized by Department of Chemistry & IQAC, Hansraj college, University of Delhi on 28<sup>th</sup> Feb 2020.

20. Participated and completed Two week “Faculty Development Programme on - Advanced Concepts on Developing MOOCs” organised by Ramanajun College, Teaching Learning Centre of MHRD, under PMMMNMTT on 2<sup>nd</sup> July – 17<sup>th</sup> July 2020.

21. Participated and completed Two week “Faculty Development Programme on – Managing online classes and co-creating MOOCs 3.0” organised by Ramanajun College, Teaching Learning Centre of MHRD, under PMMMNMTT on 25<sup>th</sup> July – 10<sup>th</sup> August 2020.

#### Association With Professional Bodies

1. Life Long Member of Indian Society of Analytical Scientists (ISAS) – Delhi Chapter (LM-12).

#### Other Activities

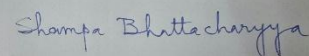
1. Successfully Completed UGC sponsored Orientation Course organized during 10.11.2014 to 5.12.2014 from Academic Staff College, JNU

2. Successfully Completed UGC sponsored Refresher Course in Chemistry organized by CPDHE at Department of Chemistry, University of Delhi from 26<sup>th</sup> June 2015 to 16<sup>th</sup> July 2015.

3. Academic Councilor – B.Sc (Life Science), IGNOU since 2018.

4. Presented a poster “The Forbidden Radiative Transition with  $\Delta S = \pm 1$ ” in International Seminar on Recent Advances in Chemistry and Material Sciences- 2020 organised by the Indian Chemical Society

5. Editor for NCERT Chemistry XI and XII books in 2013.
6. Participated in Review of Modules (Chemistry) developed by Subject Matter Expert for MOOCs (Massive Open Online Courses) for School education, NCERT, 2017.
7. Departmental Coordinator of star college scheme, DBT sponsored since 2014.



**Date : 1 Feb 2021**

**Signature:**

**Dr. Shampa Bhattacharyya,  
Associate Professor,  
Department of Chemistry,  
Hans Raj College,  
University of Delhi.**