

## Dr. Kamala Rani Bhattacharyya

<b>Position/Designation</b>	Associate Professor
<b>Department</b>	Chemistry
<b>Specialization</b>	Physical Chemistry

### Education

Degree	Field of Study	Institution	Year
B.Sc	Chemistry (Honours)	Lady Brabourne College	1991
M. Sc.	Physical Chemistry	Calcutta University	1993
Ph.D.	Physical Chemistry	Jadavpur University	2000

### Contact Information

- Mobile: +91 9062311185
- Email: kbhattacharyya89@gmail.com

### Teaching Experience

- Serving as Associate Professor in Raiganj Surendranath Mahavidyalaya since 24.05.05

### Important Link

[www.rsmraiganj.in](http://www.rsmraiganj.in)

Competitive exam qualified and other job opportunities:

- **GATE, SLET, NET qualified.**

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### Research Interests **Photophysical and Thermodynamic Studies of Surfactants in Solution**

- Teaching Responsibilities
- Undergraduate course in Chemistry as per University of Gour Banga Syllabus (CBCS and NEP)
- Topics taught at the UG level: Chemical Kinetics, Thermodynamics, Electrochemistry, Ionic Equilibrium, Binary Solutions, Surface Tension, Viscosity, Photochemistry, colloids, spectroscopy, colligative property....
- Perform several university assignments of different semester

### Administration and other Responsibilities

- Convenor of Examination Committee
- Member of Academic Committee
- Member of IQAC team, Ex IQAC coordinator (upto Jan 2019)
- Member of Library Committee
- Member of Women's cell

## Publications

### Research Article

- 1."Salt effects on surfactant aggregation and dye-micelle complexation" Kamala R Acharya, Subhash C Bhattacharyya & Satya P Moulik, Indian Journal of chemistry. Vol 36A, February 1997 no 137-143 .
- 2."The surfactant concentration- dependent behaviour of safranin T in Tween (20, 40,60, 80) and Triton X-100 micellar media" Kamala R Acharya, Subhash C.Bhattacharya, Satya P. Moulik. Journal of Photochemistry and Photobiology A: Chemistry 109 (1997) 29 -34
- 3." Effects of carbohydrates on the solution properties of surfactants and dye-micelle complexation." Kamala R Acharya,Subhash C. Bhattacharyya, Satya P. Moulik. Journal of Photochemistry and PhotobiologyA: Chemistry 122 (1999)47-52.
- 4."Solvent Parameters (Kosower , $E_T(30)$  and Dielectric Constant) of Ionic and Nonionic Micelles in Aqueous Carbohydrate (Glucose and Sucrose) Medium. Journal Surf Sci Technol. Vol14,Nos 1-4,pp.35-40,1998.
- 5"Effects of Urea and Thiourea on the Absorption and Fluorescence Behaviours Of the Dye Safranin T in Micellar Medium." Kamala R Bhattacharyya, Subhash C Bhattacharyya and Satya P. Moulik. Journal of Molecular Liquids 87(2000) 85- 96.

### Book Published

1. "PHYSICAL CHEMISTRY PRACTICAL" by Dr. Kamala Rani Bhattacharyya ; New Academic Publishers ; ISBN: 978-81-86772-49-2

*KR Bhattacharyya*