

Name: Dr. Arti Bhadouria

Designation: Assistant Professor (Chemistry)



School: SOS

Research Interest:

- **Solution behaviour of Surfactants, solubilisation and extraction phenomenon**
Synthesis of nano particles, liquid crystals, Polymers

Academic Background:

Degree	Subject	University	Year
Ph.D	Physical Chemistry	The Maharaja Sayajirao University of Baroda	2015
B.Ed	Chemistry, Maths	The Maharaja Sayajirao University of Baroda	2009
M.Sc.	Physical and Polymer Chemistry	The Maharaja Sayajirao University of Baroda	2007
B.Sc	Chemistry, Physics and Zoology	The Maharaja Sayajirao University of Baroda	2004

Professional Experience:

From	Period	Position	Organisation
01/02/2022	Till date	Assistant Professor	GSFC University
<u>02/07/2018</u>	<u>31/01/2022</u>	Temporary Assistant Professor	The Maharaja Sayajirao University of Baroda
<u>22/02/2017</u>	<u>30/11/2017</u>	Assistant Professor	Parul University
<u>02/05/2016</u>	<u>09/01/2017</u>	Trainee Executive (ADL),	Troikaa Pharmaceuticals limited
<u>06/07/2009</u>	<u>31/03/2010</u>	Teaching Assistant	The Maharaja Sayajirao University of Baroda

Teaching Engagements:

Title	Course Code	Class Name	School Name
Physical Chemistry		B.Sc and M.Sc Chemistry)	School of Science
Macromolecules (Physical Chemistry)		TY B.Sc (Chemistry)	Dept of Chemistry, MSU
Analytical and Physical Chemistry		FY and SY B.Sc (Chemistry)	Dept of Chemistry, MSU
Practicals		BSc and M.Sc (Physical Chemistry)	Dept of Chemistry, MSU

Publications:

1. Self-Assembly in Aqueous Oppositely Charged Gemini Surfactants: A Correlation between Morphology and Solubilization Efficacy, *J. Phys Chem.B* 2017, 121, 8756-8766.
2. Mechanistic approach on heat induced growth of anionic surfactants: a clouding phenomenon, *RSC Adv.*, 2015, 5, 23778–23786.
3. Morphologies near Cloud Point in Aqueous Ionic Surfactant: Scattering and NMR Studies, *J. Phys Chem.B* 2012, 116, 3699-3703.
4. Thermodynamic Energetics of Charged Micellar Solutions with and without Salts at the Cloud Point, *J. Chem. Eng. Data* 2012, 57,521-525.
5. Poster presentation, Proceedings “Clouding Behavior of Anionic Surfactant Solutions: A SANS Study”. *1st Asia-Oceania Conference on Neutron Scattering*, held at Tsukuba, Japan, Nov 20-24, 2011.
6. Morphology and antibacterial activity of carbohydrate-stabilized silver nanoparticles” in *Carbohydrate Research* 345 (2010) 1767–1773

Awards/Recognitions:

1. Awarded a CSIR, Senior Research Fellowship w.e.f 1st July 2013-16th May 2015.
2. Awarded a young Scientist award in the 15th International Small Angle Scattering Conference, held at Sydney Convention & Exhibition Centre, Sydney, **AUSTRALIA**, and Nov 18-23, 2012.