

**Name: Dr. Arti Bhadouria**

**Designation: Assistant Professor (Chemistry)**

Phone: 9898593264

E-mail: arti.bhadouria@gafcuniversity.ac.in



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
<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:**

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

### **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”. 1<sup>st</sup> 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

### **Book:--**

### **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 15<sup>th</sup> International Small Angle Scattering Conference, held at Sydney Convention & Exhibition Centre, Sydney, AUSTRALIA, and Nov 18-23, 2012.