

## CURRICULUM VITAE

**Dr(Ms) Padmini Suna**<sub>(OES-II)</sub>  
Jr. Lecturer in Chemistry  
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**Date of Birth:** 17<sup>th</sup> April 1986



### Career Objectives:

To work with passion and dedication, I feel good about myself when I complete a task or achieve a goal through my own efforts. To accomplish the pinnacle of success and to be in a commensurate position where my educational & Professional acumen be best utilized to proliferate the accretion of the name and fame of my institution.

### Academic Qualifications:

- 2012-2017                      *Ph.D.*  
*Supervisor: Prof.(Mrs) Pramila K. Misra, Centres of Studies in Surface Science and Technology, School of Chemistry, Sambalpur University, JyotiVihar-768019, Odisha, India*  
*Topic: Studies on the Spectral and Hydrolytic Behaviour of Substituted N-Benzylideneanilines in Microheterogeneous Media*
- 2009-2010                      *M.Phil in Chemistry, Sambalpur University, Odisha, India.(OGPA:8.48, Percentage: 79.8)*
- 2006-2008                      *M.Sc. in Chemistry, Sambalpur University, Odisha, India.(OGPA: 7.79,Percentage: 72.9)*
- 2003-2006                      *B.Sc. in Chemistry, Sambalpur University, Odisha, India.(Percentage: 63.8)*

### Work Experiences:

- ❖ *Five years of Teaching Experience at Govt Jr College, Sundargarh (2013-2019)*
- ❖ *Two years experience of taking Physical Chemistry practical and theory classes of M.Sc. students at School of Chemistry, Sambalpur University (2011-2013)*
- ❖ **Ph.D:** *Synthesis of aldimines*  
*Theoretical Studies using Gaussian, Spartan, Hyperchem softwares*  
*Solvatochromism of aldimines*  
*Kinetic studies using spectrophotometric methods*  
*Microemulsion: a drug delivery system*

- ❖ **M.Phil:** *One year Research experience in Surface Chemistry and Submitted a thesis on “Characterization of microemulsion involving nonionic surfactants” under the guidance of Prof.(Mrs.) Pramila K. Misra, School of Chemistry, Sambalpur University.*
- ❖ **M.Sc.:** *A review work on “Synthesis, Complexation and Behaviour of Ciprofloxacin, Trimethoprim and Hydroxy apatite” under the guidance of Prof.(Mrs.) Pramila K. Misra, School of Chemistry, Sambalpur University.*
- ❖ **B.Sc.:** *Internship at Bhabha Atomic Research Centre, Mumbai and submitted a report on “Atomic energy and its impact”.*

#### **Instrument Proficiency:**

- ❖ *UV-Visible Spectrometer, FT-IR, DSC, CV, XRC, Fluorescence Spectrophotometer, Surface Tensiometer, Viscometer, Refractometer, SEM*

#### **Publication:**

- **Padmini Suna**, Sagarika Panigrahi, Pramila K. Misra, Effect of organized assemblies, part VIII: Spectrophotometric study on the effect of micellar media on the pK of some substituted N-benzylideneanilines *Colloids and Surfaces A: Physicochem. Eng. Aspects* 415 (2012) 349– 357.
- **Padmini Suna**, Ashok K. Naik, Sagarika Panigrahi, Pramila K. Misra, Environmental effect on the dissociation constant of substituted N-benzylideneanilines in aqueous micellar system *International Journal of Advanced Chemical Science & Application* 1(1)(2013)32-35.
- **Padmini Suna**, Prabhudatta Hota, Pramila K. Misra, Experimental and theoretical studies on the structure, electronic and vibrational spectra of o/p-hydroxybenzylidene-o/p-toluidines, *Indian Journal of Chemistry* 55A (2016) 1192-1201.
- **Padmini Suna**, Pramila K. Misra, Effect of ionic and nonionic surfactants on the phase behaviour and physicochemical characteristics of pseudoternary systems involving polyoxyethylene(20)sorbitanmonooleate, *Surfaces and Interfaces* 10 (2018) 19-26.
- **Padmini Suna**, Sagarika Panigrahi, Pramila K. Misra, Substituted benzylideneanilines: A family of solvatochromic probes, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 213 (2019) 398–409.

#### **Seminar/Conferences Attended:**

- ❖ National Workshop on BRNS-IANCAS National Workshop on “Radiochemistry and Application of Radioisotopes” organized by the P. G. Department of Chemistry, Sambalpur University, Jyoti Vihar, India during 17-23 August, 2006.

- ❖ National Conference on Recent Trend in Chemical Sciences (RETICS 2007), organized by the Department of Chemistry, Sambalpur University, Jyoti Vihar, India during March 23-25, 2007.
- ❖ National Conference on Recent Trend in Chemical Sciences (RETICS 2008), organized by the Department of Chemistry, Sambalpur University, Jyoti Vihar, India during February 9-11, 2008.
- ❖ National Conference on Recent Trend in Chemical Sciences (RETICS 2009), organized by the Department of Chemistry, Sambalpur University, Jyoti Vihar, India during March 28-29, 2009 and poster presentation.
- ❖ National Conference of Orissa Chemical Society (OCS 2010), organized by the Department of Chemistry, NIT, Rourkela, India during December 19-20, 2009 and perform an oral presentation.
- ❖ National Conference on Recent Trend in Chemical Sciences (RETICS 2010), organized by the Department of Chemistry, Sambalpur University, Jyoti Vihar, India during February 19-21, 2010 and give an poster presentation(PP-24) on '**Characterization of microemulsion involving nonionic surfactants**'.
- ❖ National Conference on Recent Trend in Chemical Sciences (RETICS 2011), organized by the Department of Chemistry, Sambalpur University, Jyoti Vihar, India during February 1-3<sup>rd</sup>, 2011 and give an oral presentation(OP-30) on '**Behaviour of Aldimine in Binary Solvent Mixtures**'.
- ❖ Workshop on "Urban Solid Waste Management Including Plastic Waste", organized by the P.G. Department of Environmental Sciences, Sambalpur University, Jyoti Vihar, India on 30<sup>th</sup> September, 2011.
- ❖ Regional Conference on Industrial Waste Management organized by IACR Engineering College, Rayagada, India on 23<sup>rd</sup> October 2011.
- ❖ Silver Jubilee Annual Conference of Orissa Chemical Society and National Conference on "Molecule" organized by the School of Chemistry, Sambalpur University, Jyoti Vihar, India during Dec 24-26<sup>th</sup>, 2011 and presented a paper (OP-36) on '**Demarcation of Various Domain formed from Pure(Single) and Mixed Surfactant System**'.
- ❖ National Conference on Surfactant, Emulsion and Biocolloid-2011(NATCOSEB-2011) organized by Department of Chemistry, Tripura University, Agartala, during Dec 27-29<sup>th</sup>, 2011 and presented a paper (OP-25) on '**Characterization of microemulsion involving single and mixed surfactant system**'.
- ❖ 14<sup>th</sup> National Conference on Advance Material , Regeional conference OCS 2012 organized by Govt Engineering college , Bhawanipatna, Kalahandi , Oct 14<sup>th</sup>, 2012.

- ❖ National Conference of Orissa Chemical Society (OCS 2012) organized by Department of Chemistry, Ravenshaw University Cuttack, India on 8-9<sup>th</sup> Dec, 2012 and gives a poster presentation (P26) on **‘Synthesis & Localization Site of N-benzylidene Substituted aniline in Heterogeneous System’**.
- ❖ TCBEF-2012 on December 10-12<sup>th</sup>, 2012 at Department of Chemistry, SV University, Tirupati, India and give an poster presentation(PP-63) **‘Synthesis, electronic spectra and solvatochromism studies of some aldimines derived from salicylaldehyde and aniline/substituted anilines’**.
- ❖ National Conference on Recent Trend in Chemical Sciences (RETICS 2013), organized by the School of Chemistry, Sambalpur University, Jyoti Vihar, India during March 16-17<sup>th</sup>, 2013 and presented a paper (OP-17) on **‘Characterization of microemulsion formed from single and mixed-surfactant systems’**.
- ❖ National Seminar on Recent Advancement in Material Science (RAIMS-13), organized by the Department of Chemistry, Veer Surendra Sai University of Technology, Burla, Sambalpur, Odisha, India during October 26-27<sup>th</sup>, 2013 and presented a poster (PP-13) on **‘Spectrophotometric determination of Dissociation constant of substituted N-benzylideneanilines in aqueous and micellar media’**.
- ❖ Asian Conference on Colloid and Interface Science 2013 (ACCIS-2013), organized by North Bengal University, Darjeeling, West Bengal, India during November 20-23, 2013 and presented a paper on **‘pK of substituted N-benzylideneanilines in aqueous and micellar media’**.
- ❖ International Seminar on Mineral Processing Technology 2013 (MPT-2013), organized by IMMT, Bhubaneswar, Odisha, India during December 10-12<sup>th</sup> 2013 and presented a paper on **‘Solvatochromism of synthesized substituted N-benzylideneaniline in organic solvents of various polarities’**.
- ❖ National Seminar of Odisha Chemical Society 2013 organized by IMMT, Balasore, Odisha, India during December 13-14<sup>th</sup> 2013 and presented a paper on **‘Environmental effect on the dissociation constant of substituted N-benzylideneanilines in aqueous micellar system’**.
- ❖ ACBIR-2014 organized by NIT, Rourkela, Odisha, India during January 10-11<sup>th</sup> 2014 and presented a poster (PP-07) on **‘Solvent effect on synthesized N-benzylideneanilines in organic solvents system’**.

**Computer Proficiencies:**

- ❖ Operating Systems: Origin, Windows XP, MS Office, MS DOS, Internet Browsing.
- ❖ Proficient working with various operating systems and software like Hyperchem, Gaussian

**Area of Interest:**

- ❖ Teaching and Research