

## **CURRICULAM VITAE**

**Dr. (Smt.) PRERNA KATHANE**

Assistant Professor

Department of Chemistry

(DST-FIST Sponsored)

Govt.V.Y.T.PG Autonomous College, Durg (CG)

[College with Potential for Excellence, Reaccredited by NAAC with “A<sup>+</sup>”]

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### **Personal Information**

Date of Birth : June 24<sup>th</sup>, 1970

Sex : Female

Nationality : Indian

Contact Address : Lily- 387, Talpuri (A-Block) Ruabandha, Bhilai -490009, Durg(CG), India

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### **Educational Qualifications:**

B.Sc.: Chemistry, Zoology, Botany; Kalyan PG College, Sector-7 Bhilainagar, Durg (CG)

M.Sc.: Chemistry; Pt. Ravishankar Shukla University, Raipur (CG)

Specialization in P.G.: Inorganic Chemistry

Ph.D.: Chemistry, Pt. Ravishankar Shukla University, Raipur (CG)

### **Experience Summary**

#### **Teaching:**

- Undergraduate and Postgraduate teaching from October 1996 till date (nearly 25 years).
- As an Assistant Professor in Chemistry (PSC,MP) from October 1996 to July 1999 [Govt. College Shankarnagar, Raipur (CG)]
- Assistant Professor in Chemistry from July 1999 - till date [Govt.V.Y.T.PG Autonomous College, Durg (CG)]

#### **Research:**

- Engaged in Research work since 13-07-2011
- Awarded Ph. D. in Chemistry (2017) on the title” Removal of some toxic cations and anions by adsorption onto polyvinyl alcohol-alginate bound nano magnetite microspheres”
- Applied for registration as a guide at Hemchand Yadav University, Durg (CG)

## Research Project Completed: Minor

- University Grants Commission (UGC), New-Delhi funded Minor Research Project entitled “Superparamagnetic microspheres composed of polyvinyl alcohol and alginate as adsorbent for removal of toxicants from aqueous system” for the period of June, 2012 to December, 2013 (Rs.1,95,000)

## Fellow member

- Life Member, Indian Chemical Society, Kolkata.
- Life Member, International Science Congress Association.

## Paper Published

1. Effective removal of dye Alizarine Red S using CTAB modified PVA- Alginate bound nano magnetic microspheres, *International Journal of Scientific and Technical Research in Engineering* , 2(61) (2017) 33-41.
2. Defluoridation of Water using Adsorbent PVA- Alginate/CTAB Bound Nano Magnetite microspheres: Kinetic & Equilibrium study, *Advance Physics Letter*, 3(2) (2016) 36-42.
3. Removal of dye safranin-T from aqueous solution by adsorption onto PVA/Alginate bound nano magnetite hydrogel microspheres, *Asian Resonance*, 5 (2) (2016) 01-09.
4. Adsorption of  $\text{Cu}^{2+}$  ions onto Polyvinyl Alcohol-Alginate bound Nano Magnetite Microspheres: A Kinetic and Thermodynamic study, *International Research Journal of Environment Science*, 4(4) (2015) 12-21.
5. Superparamagnetic PVA-A microspheres as adsorbent for  $\text{Cu}^{2+}$  ions removal from aqueous systems, *International Research Journal of Environment Science*, 2(7) (2013) 44-53.

## Paper in Conferences/Seminar/Symposia/Congress/Workshops:

- Fixed bed column study for removal of Anionic dye from aqueous system by CTAB functionalized PVA-Alginate bound nanomagnetite microspheres National Conference on Advances in Environmental & Chemical Sciences, Raipur (CG) India, March 17-18, 2017
- Removal of dye Safranin-T using Nano magnetite adsorbent: Fixed bed column study, National Conference on Current Environmental Issues & Sustainable Development, BIT, Durg (CG) 2016.
- Defluoridation of water by adsorption using a high efficiency adsorbent PVA-Alginate bound nanomagnetite microspheres, International Conference on Recent Trends in Science & Engineering, Durg (CG) 2016.
- Effective removal of p-Nitro phenol by adsorption onto PVA-Alginate bound nano magnetite microspheres, BRNS-AEACI Symposium on Current, Trends in Analytical Chemistry, Mumbai (MS) 2015.

- Fixed bed column study for removal of Cd(II) ions from aqueous solution by PVA-Alginate bound nano magnetite microspheres, International Conference on Status of Science & Technology in Chhattisgarh State, BIT, Durg (CG), 2015
- Synthesis of nanomagnetite encapsulated PVA-Alginate microspheres and evaluation for its efficiency for Cd(II) ions removal from water, International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences, Nagpur, (MS) 2015.
- Removal of Alizarin red-S dye onto PVA-Alginate bound nano magnetite microspheres, International Conference on Water, Kottayam, Kerala, 2015.
- Adsorptive removal of Safranin-T from industrial effluent by nanomagnetite encapsulated PVA-Alginate microspheres, 4<sup>th</sup> International Science Congress, Udaipur, Rajasthan, 2014.
- PVA-Alginate bound Fe<sub>3</sub>O<sub>4</sub> Magnetite nanoparticles as adsorbent for removal of Cu (II) from aqueous medium, 2<sup>nd</sup> International Science Congress, Mathura (UP) 2012.

**Conferences/Seminar/Symposia/ Congress/Workshops Attended:**

Year	Topic of workshop/Seminar/Symposia/Conference	Date
2020	Webinar on Thrust area of research, Hemchand Yadav University, Durg (CG)	January 09, 2020
	Webinar on Research Innovation and Extensions, Govt. V.Y.T. PG Auto. College, Durg (CG) India	December 05, 2020
	International Webinar on Role of Functional Nanomaterials for Combating Covid 19, Govt. V.Y.T. PG Auto. College, Durg (CG) India.	October 29-20, 2020
	International Webinar on Post Covid -19 World Environment: Prospects and Challenges for Sustainable Development, Govt. V.Y.T. PG Auto. College, Durg (CG) India.	June 05- 07, 2020
	International Conference on Materials for Environment, Govt. V.Y.T. PG Autonomous College, Durg (CG) India	January 24-25, 2020
2019	9 <sup>th</sup> International Science Congress, Bhilai Institute of Technology, Durg (CG) India	December 08-09, 2019
	International Conference on Recent Trends in Chemical Sciences, Pt. R.S. University Raipur (CG) India	November 14-16, 2019

	National Conference on Current Environmental Issues & Sustainable Development, Bhilai Institute of Technology, Durg (CG) India	January 29-30, 2019
2017	National Seminar on Current Development of Environmental Sciences in Chhattisgarh state, BMM Sect.-9, Bhilainagar, Durg (CG)	November 30 & December 01, 2017
2017	National Conference on Advances in Environmental & Chemical Sciences, Pt. R.S. University Raipur (CG) India	March 17-18, 2017
2017	National Workshop on Emerging Trends of Chemicals in Human Life, Govt. Dr. W.W. Patankar Girls' P.G. College, Durg (CG)	February 06, 2017
2016	National Conference on Current Environmental Issues & Sustainable Development, Bhilai Institute of Technology, Durg (CG) India,	January 29-30, 2016.
2016	International Conference on Recent Trends in Science & Engineering, Govt. V.Y.T. PG Autonomous College, Durg (CG) India	January 15-16, 2016
	National level Workshop on Nano-Chemistry, Kalyan P.G. College, Bhilainagar (CG)	January 08-09, 2016
2015	Workshop on "Green Chemistry and its Future aspects", Govt. V.Y.T. PG Auto College, Durg (CG)	November 30, 2015
	17 <sup>th</sup> National Conference on Surfactants, Emulsions & Bio colloids (NATCOSEB XVII), Pt. R.S. University, Raipur (CG)	November 04-06, 2015
	National Seminar on Green Chemistry, BMM Sect.-9, Bhilainagar, Durg (CG)	October 28-29, 2015
	BRNS-AEACI Symposium on Current Trends in Analytical Chemistry, Mumbai (MS), India	May 26-29, 2015
	International Conference on Status of Science & Technology in Chhattisgarh State, BIT, Durg (CG)	March 19-20, 2015
	International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences, NAGPUR University (MS)	February 05-07, 2015

	International Conference on Water: From Pollution to Purification, Kottayam, Kerala	January 23-26, 2015
2014	4 <sup>th</sup> International Science Congress, Udaipur, Rajasthan, India	December 08-09, 2014
2012	3 <sup>rd</sup> International Science Congress, Vrindavan, Mathura (UP) India	December 08-09, 2012
2011	1 <sup>st</sup> International Science Congress, Indore (MP) India	December 24-25, 2011
	National Seminar on Emerging Trend in Chemical Sciences, Kalyan P.G. College, Bhilainagar (CG)	November 18-19, 2011
	National Seminar on Emerging Trend in Chemical Sciences & Future Prospects, Govt. V.Y.T. PG Auto. College, Durg (CG)	October 11-12, 2011
2010	47 <sup>th</sup> Annual Convention of Chemists-2010 & International Conference on Recent Advances in Chemical Sciences, Pt. R.S. University Raipur (CG)	December 23-27, 2010
2009	Workshop on Role of women in management of water resources, Ministry of water resources & Central Water Board, Raipur (CG)	March 04, 2009
2008	BITCON-2008, Dept. of Engineering Chemistry, BIT, Durg (CG)	November 07-08, 2008
	National Seminar on Medicinal Value of Drugs Extracted from Plants of CG Forests, Govt. Nagarjun P.G. College of Sciences, Raipur (CG)	October 17-18, 2008
2007	National Symposium on Fundamental & Analytical Aspects of self-organizing system, Kalyan P.G. College, Bhilainagar (CG)	March 08-10, 2007
1999	National Seminar on Chemistry of Environmental pollution with special emphasis on pesticides, Govt. D. B. Girls' P.G. auto. College, Raipur	January 28-29, 1999

**Other Contributions:**

- Active member, International Conference on Materials for Environment-2020
- Sectional Secretary, Chemical Sciences Section in 9<sup>Th</sup> International Science Congress, BIT, Durg (ISC- 2019)
- Contributed in “ Inspire Internship Science Camp”
- Member of Parents-Teacher- Student Association
- Member of Scholarship Committee
- Member of Girls Discipline Committee
- Member of Board of Studies

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