



**Government Shakambhar P.G. College**  
**Sambhar Lake, Jaipur (Raj.)**

Name of Faculty Member- Dr Jaya Rai

Designation: Professor

Name of Department- Chemistry

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Qualifications:

Degree	University	Year
Ph.D.	University of Rajasthan	1992
M.Phil.		
Post Graduation	University of Rajasthan	1987
Graduation	University of Rajasthan	1985
Others		

Areas of Interest/ Specialization-

Teaching Experience (Years) - UG.....30 years..... PG  
.....Nil.....

Research Supervision: - Awarded.....Under Progress.....

Awards and Honours-

Membership (Academic Bodies): Life Member – Indian Science Congress

Patent (if any) -

**Research Projects (Minor/Major/any other)-**

	Major/ Minor	Title of the Project	Year	Funding Agency	Duration
1.	Minor	Synthesis, Characterization and Hydrolysis Reactions of Heterometallic Alkoxides and U- oxo Alkoxides	Nov 1998 to Oct 2000	UGC	2 years
2.	Minor	Studies of Chemical Pollutants in Drinking Water of Sambhar Lake and its Adjoining Areas	May 2006 to April 2008	UGC	2 years
3.	Major	Ecology, Socio- economic Profile and Conservation Management Plan for the Sambhar Lake	2016- 2017	Forest Department, Rajasthan	1 year

### Research Paper & Book Publication:

Title of Paper / Book	Name of Journal / Publisher	Volume & Year Of Publication	ISSN / ISBN No.(If Any)
Synthesis and Characterization of Bimetallic {Al(III) Ba (II)- $\mu$ -oxo-isopropoxide, BaO <sub>2</sub> Al <sub>2</sub> (OPri) <sub>4</sub> and its Reactions with Some Protic Ligands Volume 4, Issue 9, September 2017. Pages 126-131	International Research Journal of Natural and Applied Science	Volume 4, Issue 9, September 2017	2349-4077
Synthesis and Characterization of Antimony (III) Heterolytic Derivative having Oxygen, Nitrogen and Sulphur Containing Organic Moieties with their Antibacterial and Antioxidant Activities, 194(9), 879-886. DOI: 10.1080/10426507.2018.1528254	Phosphorous, Sulphur and Silicon and the Related Elements	2018-19	1042-6507
Sambhar Lake: An Emerging Tourist Hub, Volume 10, No. 4, October 2020	Inspira- JMME	Volume 10, No. 4, October 2020	2231-167X
The Magic of Chemistry, 2389-2391, Volume 8, Issue 12, December 2020	International Journal of Creative research Thoughts IJCRT	Volume 8, Issue 12, December 2020	2320-2882
Pseudo feminism, Volume 8 issue 4 December 2020, Page No. – 370-371	International Journal of engineering Development and Research	Volume 8 issue4 December 2020	2321-9939
The Hidden Gem of Rajasthan- Through the Perspective of Chemistry, Volume 3, No.1, January – March 2021	Journal of Engineering Development and research International	Volume 3, No.1, January – March 2021	2581-9925

Social media and Mental Health Volume 9, Issue1, January 2021, Page No. 2995-2996	International Journal of creative Research thoughts	Volume 9, Issue1, January 2021	2320- 2882
Methanolysis and Hydrolysis Studies of Bimetallic Systems $Ba\{Ti(OR^i)_6\}$ and $Ba\{Ti_2(OR^i)_9\}_2$ 4877, Oct.-Dec.2020, vol 12 Issue Page No. – 4877-4885	International Journal of Pharmacol. Research	Oct.- Dec.2020, vol 12	0975- 2366
For Modifying the Corrosion Resistance mild steel coated By Metal oxide Nanoparticles construct Nanocomposite : A review! Vol. No. VIII, Issue – 4,2021-22	Shodhsamhita UGC care group Journal	Vol. No. VIII, Issue – 4,2021-22	2277- 7067
Triphenyl Arsenic (V) mixed Ligand Derivatives along with Anti Microbial, Antioxidant and Cytotoxic studies	Chemistry Europechemistry Select Vol7, Issue21	Vol7, Issue21 2021-22	1-9

### Paper Presentations in (Last 5 years)-

Title of Paper Presented	Theme of conference / seminar	National / International	Organised by	Date
Women Rights at Work Place	Manav Adhikar- Mudde Avam Chunautiya	National	Rajkiya Mahavidyala ya, Rajgarh	30,31 Jan 2017

Impact of GST on Pharma Industry	Vastu Avam Sevakar	State Level	Govt Shakambhar PG College, Sambhar Lake	20 Sept 2017
Need of Value Based Education	Mulya Shiksha Avam Charitra Nirman	National	SKRP Govt PG College, Kishangarh	
Sambhar Lake: An emerging Tourist Hub	Exploring Contexts of Tourism, Culture and Heritage in South Asia	International	Centre for Tourism and Heritage and DAV College, Ajmer	2018
Balanced Diet-Right of Every Women	Human Rights Are Womens Rights:Womens Rights are Human Rights	National	Govt College, Jaipur and CARD, Mumbai	2018
Environmental contamination in Human Milk and their Impact on Children's Health	Novel Advancement in Applied chemical Sciences	National	S.S.Jain Subodh PG College , Jaipur	2020

The Hidden Gem of Rajasthan-through the Perception of Chemistry	International Multidisciplinary Conference on Education, Applied Science & Technology	International	Inspira Research Association, Jaipur	2021
Ecological Imbalance : A Threat to Sambhar lake	International Conference on Emerging Trends in Environmental sustainability	International	Agrawal P.G. College, Jaipur	2023

Other Relevant information...

1. Have attended around 30 webinars which I am not reporting here.
2. Coordinator IQAC and working as in charge in many committees at college.
3. Organising secretary of ‘Dignity of Women at Workplace – Challenges & Aspirations’, 16<sup>th</sup> August 2020 under aegis of Institute of Rural Academic & Versatile Interaction and Mehta College & Institute of Technology

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