

CURRICULUM VITAE

1. Name and Address

	Dr. Birendra Kumar Assistant Professor Department of in Chemistry Govt Rajmata Vijayaraje Sindhiya Girls College Kawardha, Distt.- Kabirdham 491995, Chhattisgarh
	Email- birendrajangde@gmail.com Phone – 07741232054 (O) Mobile- 9179353741 Website- rvrsgirlscollegekawardha.ac.in

2. Principal Research interests

Kinetics	Micellar Chemistry	Polymer Chemistry
Solvent interaction	Environmental Chemistry	

3. Education qualification

Degree	Subject	University	year
B.Sc.	Chemistry, Zoology, Botany	Pt. Ravishankar Shukla University, Raipur (Chhattisgarh)	2005
M.Sc.	Chemistry	Pt. Ravishankar Shukla University, Raipur (Chhattisgarh)	2007
M.Phil.	Chemistry	Pt. Ravishankar Shukla University, Raipur (Chhattisgarh)	2008
Ph.D.	Chemistry	Pt. Ravishankar Shukla University, Raipur (Chhattisgarh)	2013

M.phil Dissertation Title	Mass and Size Distribution in Particulate Matter in Ambient Layer of Raipur City
Ph.d. Thesis Title	Kinetic Studies nn Micellar Catalysis of Some Organic Reactions

EXAMINATION EXPERIENCE

1. Acted as Examiners for Graduation (Internal and External Examiners –Pt. Ravishankar Shukla University Raipur, Hemchand Yadav Durg Vishwavidyalaya, Durg)
2. Acted as Superintendent and Assistant Superintendent (University Exam)
3. By organized CGVYAPAM, CGPSC competitive examination, I have worked as Assistant superintendent, observer etc.

OTHER RECOGNITIONS:

1. Awarded as a ISN Award by Athens, Greece.
2. Fellow and Life Member, The Indian Science Congress Association (ISCA)
Membership No. **L20006**
3. Fellow and Life Member, Indian Society for Surface Science and Technology **L/M-T-13**
4. Fellow and Annual Member, Indian Chemical Society (ICS) Membership No. **F/6969**
5. Acted as a Convenor, National Science Day Celebration 28th Feb 2015, GOVT.RVRS
GIRLS College Kawardha, Dist. Kabirdham (C.G.)
6. Reviewer: Elsevier J. of Molecular Liquid.
7. Acted as a Co-convenor, National Science Day Celebration 28th Feb 2020, APSGMNS
Govt. PG College Kawardha, Dist. Kabirdham (C.G.)

PUBLICATIONS:

1.	Birendra Kumar, K.K. Ghosh and P.R. Dafonte, Comparative Study of the Cationic Surfactants and their Influence on the Alkaline Hydrolysis of Acetylsalicylic Acid, <i>Int. J. Chem. Kinetics</i> , (2011) Vol. 43, Page No. 1-8.
2.	Birendra Kumar and K. K. Ghosh, Effects of Anionic Surfactants on the Kinetics of Acidic Hydrolysis of Acetohydroxamic Acid <i>J. Indian Chem. Soc.</i> , (2011) Vol.- 88, Page No. 193-197.
3.	D. Tikariha, Birendra Kumar , N. Singh, Kallol K. Ghosh and P. Quagliotto Micellization Behavior of Cationic Gemini Surfactants in Aqueous-Ethylene Glycol Solution, <i>J. Surfactant Deterg.</i> , (2011) Vol. 14 Page No. 555-562.
4.	Birendra Kumar , Deepti Tikariha and Kallol K. Ghosh

	Effects of Electrolytes on Micellar and Surface Properties of Alkyldiethylethanol-ammonium Bromide Surfactants <i>J. Dispersion Sci. Technol.</i> , (2012) Vol. 33 Page No. 265-271
5.	Birendra Kumar , Deepti Tikariha, Kallol K. Ghosh and P. Quagliotto Effect of Short Chain Length Alcohols on Micellization Behavior of Cationic Gemini and Monomeric Surfactants <i>J. Mol. Liquids</i> , (2012), Vol. 172 Page No. 81-87.
6.	Birendra Kumar , M. L. Satnami, K. K. Ghosh and K. Kuca, Comparative Studies on Reaction of Bis(<i>p</i> -nitrophenyl) Phosphate and α -Nucleophiles in Cationic Micellar Media, <i>J. Phys.Org. Chem.</i> , (2012), Vol. 25, Page No.-864–871
7.	Birendra Kumar , Deepti Tikariha, Kallol K Ghosh, Nadia Barbero, Pierluigi Quagliotto, Effect of Polymers on Micellization of Some Gemini and Monomeric Surfactants, <i>J. Chem. Thermodyn.</i> 62 (2013) 178-185.
8.	Birendra Kumar , Deepti Tikariha, Kallol K Ghosh, Nadia Barbero, Pierluigi Quagliotto, Kinetic study on effect of novel cationic dimeric surfactants for the cleavage of carboxylate ester <i>J. Phys.Org. Chem.</i> , 26 (2013) 626-631.
9.	D.Tikariha , Birendra Kumar, S. Ghosh , A. K. Tiwari , S. K. Saha , N.Barbero , P. Quagliotto , K. K. Ghosh Interaction Between Cationic Gemini and Monomeric Surfactants: Micellar and Surface Properties, <i>J. Nanofluids</i> 2, (2013) 1-9.
10.	Birendra Kumar, Deepti Tikariha, K. K. Ghosh Reactivity of N-benzoyl-N-phenylhydroxylamine in Cationic Micellar Media for the Cleavage of Carboxylate and Phosphate Esters <i>J. Mol. Liq.</i> 193 (2014) 243-248
11.	B. Kumar, Deepti Tikariha , M. L. Satnami, K. K. Ghosh, N. Barbero and P. Quagliotto Catalytic Hydrolysis of Phosphodiester by Nucleophilic ions in Gemini Micellar Media , <i>J. Phys. Org. Chem.</i> 27 (2014) 613-621
12.	B Kumar, K Ghosh, D Tikariha, Catalytic Activity Of A-Nucleophiles for Ester Hydrolysis In Cationic Micellar Media: Mo07-13, <i>Journal of Neurochemistry</i> 118, 2011

PAPER PUBLISHED IN CONFERENCE PROCEEDINGS

1.	H. K. Dewangon, Birendra Kumar, D. Tikariha and K. K. Ghosh, Nucleophilic Attack of Hydroperoxide ion on P=O Center of Phosphate Diester in Micellar Media National Conference on Recent Trends in Chemistry, Sikkim, 23-25 January, 2012, (ISBN: 978-93-80813-16-5) Page; 51-53.
2.	Deepti Tikariha and Birendra Kumar Effect of Organophosphorus Poising in Health and its Detoxification National conference in psychology, Kawardha, 12-13 Feb. 2018 (ISBN: 978-81-9321-20-4-201) Page; 20-22

UGC-ACADEMIC STAFF COLLEGE : ORIENTATION PROGRAM

1.	Quality of Higher Education: Learning Process	Birendra Kumar	UGC- Academic Staff College Orientation Program on Pt. Ravishankar Shukla University Raipur (Participate) May 15-11 June, 2013
2.	Recent trends in Chemistry	Birendra Kumar	UGC- Academic Staff College Refresher Program on Pt. Ravishankar Shukla University Raipur (Participate) 02-22 July, 2016
3.	Faculty Development Program on recent trends in advanced chemistry,	Birendra Kumar	University of Petroleum and energy studies Dehradun, Department of Chemistry, 08 June to 13 June 2020.
4.	Nanoscience & nano technology and its applications (id)	Birendra Kumar	Refresher Program on Ugc-human resource development centre guru ghasidas vishwavidyalaya (a central university), bilaspur (c.g.) - 495 009 (15/02/2021 TO 27/02/2021)

UGC SPONSORED WORKSHOP

1.	How to Write Research Project	Birendra Kumar	UGC-sponsored WorkShop on Pt. Ravishankar Shukla University Raipur (Attended) Jan 12-19, 2012.
----	-------------------------------	-----------------------	---

DST SPONSORED INSPIRE CAMPS

1.	INSPIRE Internship Summer Camp from	Birendra Kumar	DST-sponsored Summer Camp May 29 - June 02, 2012 on Pt. Ravishankar Shukla University Raipur (Active Participation)
2..	INSPIRE Internship Summer Camp from	Birendra Kumar	DST-sponsored Summer Camp Dec 25 - 29, 2012 on Pt. Ravishankar Shukla University Raipur (Active Participation)

INTERNATIONAL CONFERENCES

1.	Catalytic Activity of α – nucleophiles For Ester Hydrolysis in Cationic Micellar Media	Birendra Kumar, D. Tikariha and K.K. Ghosh	23 rd Biennial International Society for Neurochemistry (ISN) and the European Society for Neuro-chemistry (ESN), 28 August – 1 September, 2011, Athens, Greece (Presented)
----	---	---	--

NATIONAL CONFERENCES

1.	Effect of cationic surfact-ants on the alkaline hydrolysis of acetylsalicylic acid Birendra Kumar and K. K. Ghosh, National Conference on Modern Trends in Environmental Science & Engineering, July 15-16, 2010 , Bhillai. (Presented)
2.	Self-Assembled, Surfactant Important on Acidic Hydro- lysis of Acetohydroxamic Acid by Reaction Kinetics Birendra Kumar and K. K. Ghosh National Seminar on Membranes, Microemulsions and Self Assembled Systems (MMSAS) September 28-30, 2010 , Sikkim. (Presented)
3.	Effect of Cationic Surfactants on the Hydrolysis of Bis (4-nitro phenyl) phosphate Using Oxime Reactivator Birendra Kumar 47 th Annual Convention of Chemists, International Conference of Recent Advances in Chemical, Sciences Raipur, Dec. 23-27, 2010 (Presented)

4.	<p>Comparative Studies on Hydrolysis of bis(p-nitrophenyl) Phosphate Catalyzed by α-nucleophiles in Cationic Micellar Media Birendra Kumar 9th Chhattisgarh Young Scientist Congress, Jagdalpur, Bastar (C.G.), 2011 (Presented)</p>
5.	<p>Hydrolysis of Phosphate Diester by Hydroxamate ions in Cationic Micellar Media Birendra Kumar, H. K.Dewangan and K. K. Ghosh National Seminar on Emerging Trends in Chemical Sciences, Kalyan Collage Bhilai-Nagar, 18-19 Nov. 2011 (Presented)</p>
6.	<p>Kinetic Studies of Various Organic Reactions in Self-Organizing Systems Birendra Kumar 48th Annual Convention of Chemists-2011 & International Conference On Recent Advances In Chemical Sciences Allahabad, Dec. 03-07, 2011 (Presented)</p>
7.	<p>Surface and Physico-chemical Properties of Gemini Surfactants and their role in Kinetics, Deepti Tikariha, Namrata Singh, Birendra Kumar, Kallol K. Ghosh* 99th Indian Science Congress, 3-7 January, 2012, Bhubaneswar. (Presented)</p>
8.	<p>Effect of Added Alcohols on Micellar Properties of Cationic Monomeric and Gemini Surfactants in Non-aqueous Solutions. Birendra Kumar, Deepti Tikariha, Kallol K. Ghosh 99th Indian Science Congress, 3-7 January, 2012, Bhubaneswar (Presented)</p>
9.	<p>National Centre for Natural Resources Birendra Kumar NCNR, Conference 2012, Pt. Ravishankar Shukla University, Raipur (C.G.)</p>
10.	<p>Cleavage of ester Birendra Kumar, Kallol Ghosh K 5th Asian Conference on Colloid and Interface Science, 20 – 23 Nov., 2013 Darjeeling, India (Presented)</p>
11.	<p>102nd Indian Science Congress, University of Mumbai, 3-7 Jan. 2015, Mumbai Birendra Kumar, Participated</p>
12.	<p>National Conference on Recent Trends in Chemical Sciences, Jan. 23-25, 2014 School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (C.G.)-492010 Kinetic hydrolysis of ester</p>

	Birendra Kumar, and Kallol K Ghosh (Presented)
13.	101 st Indian Science Congress, University of Jammu, 3-7 Jan. 2014, Jammu Physicochemical properties of surfactants Birendra Kumar, Deepti Tikariha and Kallol K Ghosh (Presented)
14.	National Conference, Govt Digvijay P.G. College Rajnandgaon 17-18 January 2017 Soil Quality and public health, Birendra Kumar
15.	Surfactants Mediated Reactions of Acetylsalicylic Acid Birendra Kumar, Deepti Tikariha and Kallol K. Ghosh* International Conferences on Advances Chemical Engineering (ICACE, April 05-06, 2013) (Participate)
16.	Effect of surfactant decontamination organophosphate compound Birendra Kumar, Deepti Tikariha and Kallol K. Ghosh* National Conference in PG College Kawardha, 16-17 Jan. 2015 (Participated)
17.	Micellar Surfactant, Birendra Kumar , NATCOSEB, Pt. Ravishankar Shukla University, Raipur
18.	Hydrolysis of ester, Birendra Kumar , UGC TCL, Govt. College Janjgeer Champa
19.	Carrier Guidance workshop in College, Birendra Kumar , RUSA, 04/01/2016
20.	Unnat Bharat Abhiyan, Birendra Kumar , RUSA, 25/10/2016
21.	Child with special need Birendra Kumar RUSA, 10/02/2017, Singhanpuri Kabirdham
22.	Physicochemical Properties of Surfactants , Birendra Kumar , 22 nd CRSI National Symposium, Pt. R.S.U., Raipur
23.	Yuva Jagran, Birendra Kumar , District Youth Parliament 2018
24.	Youth Spark, Birendra Kumar , Chhattisgarh Rajya Yuva Aayog, 2018
25.	NSS, Birendra Kumar Govt. College Sahaspur Lohara, 2018

26.	Physicochemical properties of dimeric surfactant, Birendra Kumar International conference, recent trends on chemical 14-16 November 2020
27.	Environmental, Birendra Kumar , Science Traverse the timeline 20 November, 2020

Invited Lecture

1.	Birendra Kumar, Effect of pesticide on environment and living organism, National seminar organized by govt naveen college nawagarh, 29-30 march 2015
2.	Birendra Kumar, Biochemistry Carbohydrates, Govt. PG. College Kawardha, 2017
3.	Birendra Kumar Physicochemical Properties of Surfactants 22 nd CRSI National Symposium, Pt. R.S.U., Raipur
4.	Birendra Kumar Chemical Kinetics Govt.Pg. College Kawardha, 2017.
5.	Birendra Kumar, NSS, Govt.RVRS Girls College Kawardha, 2017.
6.	Birendra Kumar Stereochemistry and its application Govt.Pg. College Kawardha, 2018
7.	Birendra Kumar Women in Science National Science Day, Govt. P.G. College Kawardha 2020
8.	Boudhik Paricharch, shiksha and swasthaya NSS, Dhongitola, Govt. RVRS Girls College Kawardha 2020
9.	Birendra Kumar, Electronic Spectroscopy, Govt. P.G. College Kawardha, Kabirdham (C.G.) 2020
10.	Birendra Kumar Chemistry in daily life Govt. P.G. College Kawardha, Kabirdham (C.G.) 2020

Organized of Programs

1.	Seminar on National Science Day	Convenor	National Science Day, Govt. RVRS Girls College Kawardha, 2015
2.	Seminar on National Science Day	Convenor	National Science Day, Govt. RVRS Girls College Kawardha, 2016
3.	Seminar on National Science Day	Convenor	National Science Day, Govt. RVRS Girls College Kawardha, 2017
4.	Seminar on National Science Day	Convenor	National Science Day, Govt. RVRS Girls College Kawardha, 2019
5.	Seminar on National Science Day	Convenor	National Science Day, Govt. RVRS Girls College Kawardha, 2020
6.	Chemistry in Daily life	Jointly organized	E -PG Program, June 2020

List of Seminar Conference/Seminar/Webinar 2020-21

S.No.	Name of seminar 2020-21
1.	11 th National Webinar on Post Covid Scenario and Atmanirbhar Bharat , J.H. Shah Arts and H.P. Desai Commerce College Amroli in Collaboration with IQAC 03/06/2020
2.	Effectiveness of Herbal Drug on Covid 19, Mats University, Raipur 28 July 2020
3.	12 th National Webinar on fastest Promotion highest increment , J.H. Shah Arts and H.P. Desai Commerce College Amroli in Collaboration with IQAC 07/06/2020
4.	13 th National Webinar on Youth and nation , J.H. Shah Arts and H.P. Desai Commerce College Amroli in Collaboration with IQAC 09/06/2020
5.	National Webinar on Post Covid 19 World environment prospects and challenges for sustainable development 5-7 June , Govt. V.Y.T. P.G. Autonomous College Durg
6.	National Webinar on Advance in chemical Science and Engineering, Govt. Bilasa Girls P.G. Autonomous College Bilaspur, Chhattisgarh 18 July 2020
7.	National webinar on Research Ethics and academic integrity, Govt. P.G. College Jagdalpur, 09 June 2020
8.	International webinar on recent trends in medicinal chemistry, Pt. R.S.U. Raipur 27-28 July 2020

9.	International Webinar on role of functional nanomaterials in combating covid 19 pandemic, Govt. VYT Autonomous P.G. college 29-30 th October 2020
10.	Faculty Development Program on recent trends in advanced chemistry, University of Petroleum and energy studies Dehradun, Department of Chemistry, 08 June to 13 June 2020.
11.	National Webinar on Impact of Covid 19 on employment in organized and unorganized sector of Chhattisgarh, Vivekanand Mahavidyalaya, Raipur , 04 June 2020
12.	Webinar on World environment day, Govt. Mahamaya College, Ratanpur, Bilaspur, (C.G.) 05 June 2020
13.	National Webinar on Revised NAAC Assessment and Accreditation Process, Sant Gadge Amravati University, Amravati (MS), 04 July, 2020
14.	International Webinar on Emerging Challenges and opportunities on Higher education due to covid 19 pandemic 13 June 2020, Govt. Digvijay Autonomous P.G. College Rajnandgaon C.G.
15.	International Webinar on Youth attitude defines Your attitude, Indira Gandhi Govt. Arts. And Commerce P.G. College Vaishali Nagar Bhilai 23 July 2020
16.	International Webinar Pandemics crisis confronting human survival, Govt. Kamla Devi Rathi P.G. Girls College Rajnandgaon (C.G.) 06/08/2020
17.	National Webinar on Medicinal and geomatic plants for boosting immunity in the era of Covid 19, May 29, 2020, DDU Gorakhpur University, Gorakhpur
18.	International Webinar on recent trends in chemistry, Govt. Shivnath Science College Rajnandgaon, 27 June 2020
19.	National Webinar on Pandemic Covid 19 and Environment an analysis, Indira Gandhi, Govt. arts and Commerce P.G. College Vaishali Nagar Bhilai 30 June 2020

Participate in Quiz Competitions

1.	E-Quiz Aqua trivia, Govt. Dr. WW. Patankar Girls P.G. College Durg (C.G.) 11 to 15 June 2020
2.	E-Quiz Awareness of online study/e-learner platforms as an outbreak of the pandemic covid 19 28 May to 09 June, 2020
3.	E-Quiz on Covid 19 Pandemic Awareness Govt. Digvijay Autonomous P.G. College, Rajnandgaon, 02 June 2020.