

BIO DATA : DR. KALLOL KUMAR GHOSH

1. General Information

(i)	Name	Dr. KALLOL KUMAR GHOSH
(ii)	Date of Birth	: 10-10-1960
(iii)	Permanent Postal Address	Dr. Kallol K. Ghosh House No : HIG –II 447, Sector -1 Dindayal Upadhyay Nagar, RAIPUR -492010 Chhattisgarh
(iv)	Correspondence Postal Address	Dr. Kallol K. Ghosh School of Studies in Chemistry Pt. Ravishankar Shukla University RAIPUR- 492010, Chhattisgarh
(v)	Phone No./Email	Mobile No. : 9425216204 , kallolkghosh@gmail.com Landline No. : 0771-2262249 (Res)
(vi)	Total Teaching Experience	36 Years
(vii)	Total Research Experience :	34 Years
(viii)	Research Interests:	Chemical Kinetics and Reaction Mechanism, Micellar Catalysis and Micellar Enzymology, Physical Organic Chemistry, Biological Chemistry and Materials and Nano Chemistry

2. Present Position:

(i)	Designation/ Post Held	PROFESSOR OF CHEMISTRY & DIRECTOR Centre for Basic Sciences
(ii)	Organization/Institution/ University	Pt. Ravishankar Shukla University, GE Road, Raipur - 492010

3. Details of experience

Sl. No.	Post held as Professor	FromTo.....	Pay Scale & Level	Institution/ University with postal address	Nature of duties (in brief)	Experience (In Years and Months)
1.	Professor	27.07.2006– Contd.	37400-67000 Level -14	School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, C.G	Teaching & Research	13 Years 11 Months (up to 1.7.2020)

4. Educational Qualification

Sl. No.	Qualification	Institution/ University	Year	% of Marks obtained	Distinctions etc.
1.	Ph. D.	Pt. Ravishankar Shukla University, Raipur	1986		Supervisor: Prof. S.G. Tandon
2.	M.Sc. (Physical Chemistry)	Pt. Ravishankar Shukla University, Raipur	1981	71.6	3 rd Position in Merit
3.	B.Sc.	Pt. Ravishankar Shukla University, Raipur	1979	64.5	6 th Position in Merit

5. Administrative Experience/Post(s) & Responsibilities

Sl. No.	Post	Organization/ University	Duration		Experience (In years and months)
			From (Date)	To (Date)	
(i)	Dean of the Faculties	Pt. Ravishankar Shukla University, Raipur	05.09.2019	Contd.	9 Months
(ii)	Member of the Executive Council	Pt. Ravishankar Shukla University, Raipur	12.6.2020	Contd.	-
(iii)	Member of the Academic Council/ Finance Committee	Pt. Ravishankar Shukla University, Raipur	01.07.2013	Contd.	7 Years
(iv)	Head of the Department/ Centre, etc.	Pt. Ravishankar Shukla University, Raipur SOS in Chemistry	01.07.2013	30.06.2016	3 Years
(v)	Chairman, Board of Studies/ Departmental Research Committee, etc.	(i) Pt. Ravishankar Shukla University, Raipur	13.10.2014	12.10.2017	3 Years
		(ii) Pt. Sunderlal Sharma Open Univ. Bilaspur	07.03.2015	06.03.2018	3 Years
(vi)	Member of the Board of Studies/ Departmental Research Committee, etc.	(i) Pt. Ravishankar Shukla University, Raipur	16.09.2011	Contd.	8 Years 9 Months
		(ii) Bastar University, Jagdalpur, C.G	12.08.2009 19.09.2019	11.08.2012 Contd.	3 Years 9 Months
		(iii) Devi Ahilya University, Indore, M.P	23.02.2016	22.02.2019	3 Years
		(iv) Central Board of Studies, Higher Education, Govt. of Chhattisgarh	11.04.2018	Contd.	2 Years 2Months
		(v) Guru Ghasidas Vishwavidyalaya, Bilaspur	29.11.17	28.11.2019	2 years
(vii)	Member of the Professional/ Academic Bodies, etc.	Academic Planning & Evaluation Board, Pt. RSU	09.07.2013	30.06.2016	3 Years
		College Development Council, PTRSU	02.04.2019	Contd.	1 Years 2 Months
		The Local Program	21.01.2016	20.1.2018	2 Years

		Planning & Management Committee, PTRSU, HRDC			
		IQAC Pt Ravishankar Shukla University	08.02.2011	Contd.	9 Years 4 Months
		Science Faculty, PTRSU	02.04.2012	Contd.	8 Years 2 Months
		Member : LRC of Defence Res. Dev. Esttb. Gwalior	2016	2017	2 Years
		Indian Science Congress Association,			Life member
		Indian Chemical Society,			Life member
		Indian Association for Cultivation of Sciences,			Life member
		Indian Society for Surface Science & Technology,			Life member
		Chemical Research Society of India, Bangalore			Life member
		Association of Chemistry Teachers,			Life member
(viii)	Member of any International Advisory Body/ Board	NIL			
(ix)	Others (if any, state specifically)	Director Centre for Basic Sciences, Pt. RSU	01.07.2019	Contd.	1 Year
		Director National Centre for Natural Resources, Pt. RSU	22.07.2017	30.06.2019	1 Year 11 Months
		Coordinator: Public Outreach Centre Pt. RSU	13.01.2015	Contd.	5 Years 5 Months
		Coordinator, Institution Innovation Council, Pt. RSU	27.10.2018	Contd.	1 Years 8 Months
		Coordinator, DST INSPIRE Program, Pt. RSU	17.11.2011	24.03.2018	6 Years 4 Months

		Coordinator, UGC-SAP-DRS-II Project Warden : Teacher's Hostel & Guest House	02.04.2016 27.01.1993	Contd. 08.04.1999	4 Years 2 Months 6 Years 3 Months
		Coordinator: Central Valuation : Examination Pt. RSU=Pt. Ravishankar Shukla University, Raipur	2008	2010	2 Years

6. (a) Academic/Teaching Experience & Responsibilities

Sl. No.	Post held	Institution/ University	Duration		Experience (In years and months)
			From (Date)	To (Date)	
1.	Professor	Pt. Ravishankar Shukla University Raipur	27.07.2006	Contd.	13 Years 11 Months
2.	Reader	Pt. Ravishankar Shukla University Raipur	27.07.1998	26.07.2006	8 Yrs
3.	Lecturer	Pt. Ravishankar Shukla University, Raipur	16.04.1988	26.07.1998	10 Years, 3 Months
4.	Lecturer (Asth. Professor)	Govt. Arts & Science College Durg , C.G	04.03.1987	15.04.1988	1 Yr, 1 Month
5.	Lecturer (Adhoc)	Govt. Arts & Science College Durg, C.G	26.09.1983	03.03.1987	3 Yrs, 5 Months

(b) Participation and contribution in relevant areas to promote and develop in higher education:

	Institution/ University	Area of specialization
Visiting Professor		
Resource Person	HRDC (Academic Staff College), Pt. Ravishankar Shukla University, Affiliated Colleges, Inspire Camps, National Science Days and Other Institutions	Chemistry, Funding Opportunities, Higher Education, Science and Technology etc. Quality Education
Others : Expert Member	Higher Education Department Govt. of Chhattisgarh	Evaluation of PBAS System (Self Appraisals) of Astt. Professors of Chemistry

Observer	All India Council for Technical Education, New Delhi	National Level Common Management Admission Test
Course Coordinator	Academic Staff College (HRDC) , Pt. Ravishankar Shukla University, Raipur	(i) Workshop “ How to Write Research Project (Jan.2012) (ii) Refresher Course on Chemistry (July 2016)
Member Steering Committee	Chhattisgarh Professional Examination Board (VYAPAM), Raipur	UGC SET Examination 2017, 2018 and 2019
Member Inspection Committee	Chhattisgarh Private Universities Regulatory Commission, Raipur	
Assessor (NAAC)	National Assessment & Accreditation Council, Bangalore	

(c) Involvement with formulation of academic programmes subjects):

Sl. No.	Nomenclature of Innovative Academic Programmes formulated & implemented	Date of approval by Academic Council	Year of Introduction
1.	Choice Based Credit System, CBCS, Pt. Ravishankar Shukla University, Raipur	16.03.2015	2015-2016
2.	5 Year Integrated MSc : Chemistry (Centre for Basic Sciences, Pt. Ravishankar Shukla Univ. Raipur)		2015-2016

(d) Important MoUs formulated for academic collaborations:

Sl. No.	MoUs formulated	Name of Agencies/Departments involved	Year of MoU(s)
1.	Research Work	CSIR- CDRI-Lucknow, DRDE Gwalior and Pt. Ravishankar Shukla University, Raipur	24 th January 2013 (For Four Years)
2.	Research Work	Indian Institute of Technology, Bhilai & Pt. Ravishankar Shukla University, Raipur	27 th March 2018 (For Five Years)

(e) Position of Chairs:

Sl. No.	Name of Chair	Name of Agencies/Departments/ Institution/ University involved	Period of holding the Chair	
			From	To
1.	James Visiting Chair	St. Francis Xavier University, Antigonish, Canada	01.06.2005 to 31.07.2005	

7. International academic Exposure/ Post Doctoral Work

Sl.	Post/	Institution/	Area of	Duration
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No.	Assignment	University with complete address	Assignment	From	To	In Years & Months
1.	INSA JSPS VISITING FELLOW	Seikei University, Tokyo, Japan	Physical Organic Chemistry	07.06.2000	06.09.2000	3 months
2.	Collaboration	University of Santiago-de-Compostella, Spain	Reactivity of Hydroxamic Acid in Mixed Surfactants and Cyclodextrin	15.06.2002	16.06.2002	2 days
3.	Collaboration	Interfaces, Traitements, Organization et Dynamique des System, (Invited Lecture) and visit to Department. University of Paris, France	Attended the Interfaces, Traitements, Organization et Dynamique des System	17.06.2002	22.06.2002	5 days
4.	Participant	Osaka University, Japan	JASS 03 Winter School in NMR Spectroscopy	19.01.2004	30.01.2004	10 days
5.	JAMES Chair VISITING FELLOW	St. Francis Xavier University, Antigonish, Canada	Micellar Catalysis & Surface Chemistry	01.06.2005	31.07.2005	2 months
6.	Collaboration	Nanoscience & Nanotechnology Initiative, National University of Singapore (NSU)	Detoxification of Simulants of Chemical Warfare: Strategies & Perspectives	26.02.2007	28.02.2007	3 days

***8. FOREIGN VISIT:**

- **8TH INTERNATIONAL CONFERENCE ON HOMOGENEOUS CATALYSIS, UNIVERSITY OF AMSTERDAM. THE NETHERLANDS, AUGUST 1992.**
- **INSA - JSPS VISITING FELLOW: SEIKI UNIVERSITY, TOKYO. JAPAN. (JUNE 2000 TO SEPTEMBER 2000)**
- **14TH SURFACTANT IN SOLUTION SYMPOSIUM: UNIVERSITY OF BARCELONA. SPAIN, (JUNE 2002)**
- **DELIVERED A LECTURE IN ITODYS, UNIVERSITY OF PARIS-7,PARIS, FRANCE (JUNE 2002)**
- **VISITED UNIVERSITY OF SANTIAGO-DE-COMPOSTELLA, SPAIN, (JUNE 2002).**
- **ATTENDED JASS 03 WINTER SCHOOL ON NMR – OSAKA UNIVERSITY, JAPAN (JAN.2004)**
- **JAMES CHAIR VISITING FELLOW: ST. FRANCIS XAVIER UNIVERSITY, ANTIGONISH, CANADA (1ST JUNE 2005 TO 1ST AUG. 2005).**
- **ATTENDED 12TH. ASIAN CHEMICAL CONGRESS, KUALALUMPUR, MALAYASIA, AUG. 2007**

- VISITED AND DELIVERED LECTURE IN NATIONAL UNIVERSITY OF SINGAPORE, SINGAPORE, AUG. 2007.(NANOSCIENCE AND NANOTECHNOLOGY DIVISION)
- DELIVERED AN INVITED A TALK IN 238 TH. AMERICAN CHEMICAL SOCIETY MEETING, WASHINGTON DC,USA FROM AUGUST 16-20, 2009.
- DELIVERED AND INVITED TALK IN 8TH INTER. CHEMICAL & BIOLOGICAL MEDICAL TREATMENT SYMPOSIUM, 2-7 MAY 2010, SPIEZ LABORATORY, SWITZERLAND.
- DELIVERED AND INVITED TALK IN CBMTS INDUSTRY VII, WORLD CONGRESS ON CBRN THREAT & TERRORISM, 10-15 APRIL 2011, CAVTAT-DUBROVNIK, CROATIA

9. Scholarly achievements:

A. Contribution to Journals and Books:

	Details
Books authored	<p>Books Chapter</p> <p>I. Design and Reactivity of Alpha Nucleophiles for Decontamination Reactions: Relevance to Functionalized Surfactants. Authors : Namrata Singh, Yevgen Karpichev, Kamil Kuka, and Kallol K Ghosh. New Trends in Supramolecular Chemistry, Edited By: Volodymyr I. Rybachenko (Page No.327-353) (Donetsk East Publisher House (2014) Chapter-15</p> <p>II. Thymoquinone, Authors : Bhanushree Gupta, Kallol K Ghosh and Ramesh C. Gupta (Page No. 541-550) Nutraceuticals Efficacy, Safety and Toxicity, Edited By: Ramesh C. Gupta (2016) Elsevier. Chapter-39: ‘Recent Advances in the Antioxidant Therapies for Alzheimer’s Disease:Emphasis on Natural Antioxidants Authors: Namrata Singh and Kallol Ghosh (Page No 253-263 , 2019 Springer) Chapter 22 Pathology, Prevention and Therapeutics of Neurodegenerative Disease Editors: Singh, Sarika, Joshi, Neeraj</p> <p>IV. Plant and Food Derived Immunomodulators as Nutraceuticals for Performance Enhancing Activities Authors: B. Gupta, V R Singh,S. Verms, N. Meshram, L. Dhruw, R. Sharma, Kallol K Ghosh, R C Gupta 2019, Springer 593-601 Nutraceuticals in Veterinary Medicine, Eds. R.C. Gupta et. al</p>

Editor in Chief	NA
Editorship	Pt. Ravishankar Shukla University Journal, Science
Peer reviewer for	Many American Chemical Society Journals, Royal Society of Chemistry Journals, CSIR Journals, Indian Chemical Society Journals and Elsevier Journals
Member of International Advisory Board	Nil
Others (Specify)	Member Editorial Board, Journal of Surface Science and Technology, Kolkata ; International Journal of Chemistry, Mumbai

B. Publication:

(i) Total Publications : 199 (Pl see List of Publications)

C. Participation and scholarly presentations in conferences/ seminars/ workshops

(i) National: Total Number : 56

(ii) International: Total Number : 14

1.			

D. Participation and contribution in National/International Fora in the area of your academic and professional expertise:

	Number (s)	
Invited Talks	International	06
	National	16
Congresses attended	International	14
	National	~ 56
Examinership etc.	International :	04
	National	~30

<p>Others (Specify) Convener / Organizing Secretary (i) 17th. NATCOSEB Conference , Nov.4-6, 2015 (ii) Natl. Conf. on Recent Trends in Chemical Sciences : Jan.23-25, 2014 (iii) RSC Chemistry Teacher Training Workshop , October 6-8,2015 (iv) UGC-SAP-DRS-II Natl. Conf on Advances in Env.& Chem Sciences , March17-18, 2017(Chairman/Coordinator) (v) 12 th. C.G Young Scientists Congress , Feb. 17-19, 2014 (vi) 17 th. C.G Young Scientist Congress, Feb 28- March 1 , 2019 (vii) UGC-SAP-DRS-II 2 nd..Natl. Conf on Advances in Env.& Chem Sciences , March22-23, 2018 (Chairman/Coordinator) (viii) UGC-SAP-DRS-II 3rd.Natl. Conf on Advances in Env.& Chem Sciences , March 27-28, 2019 (Chairman/Coordinator)</p>	<p>(i) International :56 th Annual Convention of Chemists and International Conference on Recent Trends in Chemical Sciences, Nov. 14-16, 2019 (ii) 22nd. CRSI National Symposium in Chemistry & 12 th. Royal Society of Chemistry Symposium, Feb 1-4, 2018</p> <hr/> <p>National : Scientist-in-Charge Physical Chemistry Section, Indian Chemical Society 2011-2013 Council Member : Indian Chemical Society 2013-2016 Council Member : CRSI 2011-2014 Joint Secretary : CRSI 2015-2017 , 2020-2023 Council Member : Indian Society for Surface Science and Technology Organized successfully following 10 DST INSPIRE INTERNSHIP CAMPS as a Coordinator May 29- June2 2012, 25-29 Dec 2012, 16-20 July 2013,26-30 Dec.2013,5-9 Aug.2014, 26-30 Dec.2014,27- 31July 2015, 21-25 Dec.2015, 10-14 Aug.2016, 20-24 Dec.2016, 21-25 August 2017, 27-31 December 2017</p>
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10. Research Projects:

Sl. No.	Client/Organisation/ Institution's name & address	Title & Nature of project	Duration of project	Amount of grant (In Rupees)
1.	University Grants Commission, New Delhi	Kinetic Study of the Acid Promoted Hydrolysis of Hydroxamic Acids. (CHM 90/203)	1991-1993	12000=00
2.	Department of Science and Technology, New Delhi, (Young Scientist)	Mechanistic Studies of the Acidic Hydrolysis of Some Carbon and Nitrogen Substituted Hydroxamic Acids (SR/OY/C-21/91)	1992-1995	2,26,900 = 00
3.	University Grants Commission, New Delhi	Reactivity and Mechanism of Alkaline Hydrolysis of Hydroxamic Acids. (F. 12-42/93 SR-94), 28-01- 94	1994-1997	1,29,000 = 00
4.	M. P. Council of Science and Technology, Bhopal	Kinetic Studies of Micellar Hydrolysis of Hydroxamic Acids (C-88/92)	1994-1998	98800=00
5.	Department of Science and Technology, New Delhi	Acid-Base Equilibria and Metal Complexation of	1997-2001	1377520=00

		Hydroxamic Acids: Applications to DNA Cleavage (SP/S-1/G-28/94)		
6.	Pt.Ravishankar Shukla University (UGC Unassigned Grant)	Characterization and Properties of Mixed Micelles and Polymer Micelles as Reaction Media (1253/GrantCell/MRP/2001), 23. 08. 2001	2001-2003	20000=00
7.	Council of Scientific and Industrial Research (CSIR), New Delhi	Interfacial Reactivity of Hydroxamic Acids in Microorganized Media (01/1825/02/EMR-II) 7-8-02	2002-2005	688000=00
8.	Defence Research Development Organization (DRDO), New Delhi	Detoxification of Some Simulants of Chemical Warfare Agents and Pesticides Using Hydroxamic acids (ERIP/ER/0303406/M/01)	2004-2007	2100000=00
9.	University Grants Commission (UGC), New Delhi	Size Controlled Silver and Gold Nanoparticles Synthesis in Organized Assemblies (F-30-85/2004(SR))	2005-2006	80000=00
10.	Council of Scientific and Industrial Research (CSIR), New Delhi	Study of Enzymatic Hydrolysis of Carboxylate and Phosphate Esters in Micelles (01(2143)/07/EMR-II 30.03.07)	2007-2011	1158,000 = 00
11.	University Grants Commission (UGC), New Delhi (Minor Project)	Studies on Physicochemical and Thermodynamic Properties of Some Gemini Surfactants (F. No. 34-550/2008 (SR))	2009-2011	105000=00
12.	Defence Research Development Organization (DRDO), New Delhi	Synthesis and Development of Novel Oxime Reactivator of Cholinesterases Inhibited by Organophosphorus Toxicants	2012-2015	4013846=00
13.	Council of Scientific and Industrial Research (CSIR), New Delhi	Solubilization of Polycyclic Aromatic Hydrocarbons Using Novel Surfactant Mixtures	2012-2015	1850000=00
14.	University Grants Commission (UGC), New Delhi (Major Project)	Micellar, Interfacial and Spectroscopic Studies of Antidepressant- Drug-Surfactant Systems	2015-2018	1450600=00
15.	Chhattisgarh Council of Science & Technology (CCOST), Raipur (Minor Research Project)	Studies on Interaction of Surfactants And Surfactants Mixtures With Serum Albumin Proteins.	5,00,000=00	2015-2018

11. Honours /Awards & Fellowships for Outstanding Work:

Sl. No.	Name of Award/Fellowship etc.	Elected/Honorary Fellow	Awarded by	Year of Award
1.	CRSI Bronze Medal		Chemical Research Society of India, Bangalore	2012
2.	Professor of the Year (Best Teacher)		Pt. Ravishankar Shukla University, IQAC	2014-2015
3.	Prof. B N Ghosh 80 th . Birthday Commemoration Award		Indian Chemical Society, Kolkata	2016

12. Research Scholars successfully guided - Total Number 29

Name of Programme	Awarded (Numbers)(Under progress not to be included)
Ph.D	29
M.Phil	13