

## ***CURRICULUM VITAE***

**NAME:** *Dr. Kartick Gupta*

**Designation:** Associate Professor

**Department:** Chemistry

**Joined in College Service:** 1998 (2014 in Present Institution)



**Academic Qualification:** BSc-M.Sc. (J.U.), Ph.D. (IICT-O.U.) Diploma in German (Advanced Course) (OU), Certificate in Computing (IGNOU)

**Specialization/Areas of Interest:** Philosophy of Education, Physical Chemistry, Quantum Chemistry, Density Functional Theory, Electronegativity, Atomic and Molecular Clusters, Acidity and Basicity.

**E-mail:** [kartick.gupta@rediffmail.com](mailto:kartick.gupta@rediffmail.com)

### **Teaching Experience**

More than 22 years (Honours and General Course) at Ramananda College, Bishnupur, Sambhu Nath College, Labpur and Bejoy Narayan Mahavidyalaya, Itachuna

### **Research Experience/Research Projects**

1. Ex-Part-time Researcher at the Dept. of Chemistry, Indian Institute of Technology Kharagpur
2. Researcher at Centre for Theoretical Studies, Indian Institute of Technology Kharagpur, October-November, 2010, 2011, 2013, 2014
3. UGC Minor Research Project entitled "DFT based QSAR Studies on Oxidants, Reductants and Anti-oxidants" (Completed in 2009)
4. Researcher at Bhaba Atomic Research Center, Mumbai (IASc-INSA-NASI sponsored) September-October, 2008

5. Researcher at the Dept. of Chemistry, Indian Institute of Technology Kharagpur (IASc-INSA-NASI sponsored) May-June, 2006; May-June, 2007

6. Ex-Part-time Post-Doctoral Researcher at the Dept. of Chemistry, University of Kalyani, Kalyani (April, 2003- April, 2005)

### **Research Publications (Selected)**

1. Polarizability, Ionization potential and Softness of Water and Methanol Clusters: An Interrelation Kartick Gupta, Tapan K. Ghanty and Swapan K. Ghosh J. Phys. Chem. A **116**(25), **2012**

2. Charge based DFT Descriptors for Diels-Alder Reactions, Conference Proceedings 13th European Symposium on Organic Reactivity, University of Tartu, Estonia, K. Gupta, S. Giri, P. K. Chattaraj, J. Phys. Org. Chem. Special Issue Paper, **2012**

3. Excited State Polarizabilities of Methanol Clusters, K. Gupta, Tapan K. Ghanty, Swapan K. Ghosh Phys. Chem. Chem. Phys. **12**, 2929-2934, **2010**

4. Acidity of meta- and para-substituted Aromatic acids: A Conceptual DFT Study, Kartick Gupta, SantanabGiri, P. K. Chattaraj, New J. Chem. **32**, 1945-1952, **2008**

5. Are Strong Bronsted Acids Necessarily Strong Lewis Acids? Kartick Gupta, D. R. Roy, V. Subramanian, P. K. Chattaraj J. Mol. Struct.: THEOCHEM. **812**, 13-24, **2007**

6. A New Scale of Electronegativity of 54 Elements of Periodic Table based on Polarizability of Atom, D. C. Ghosh, Kartick Gupta, Theo. Comput. Chem. Special Issue of 2nd Asian-Pacific Conference on Theoretical & Computational Chemistry, Bangkok, Thailand, **2005**

### **Seminar/Conference/Workshop Attended (Selected)**

1. Participated in UGC-CPE sponsored Curriculum Seminar on Mathematics and Quantum for UG Chemistry held at Jadavpur University on February 29, 2020
2. Participated in Annual Gathering 2019 of Krishnamurti Foundation India during November 15-18, 2019 at Rishi Valley School, Rishi Valley
3. Participated in National Science Teachers' Congress, India International Science Festival-2019 (Govt. of India) during November 5-8, 2019 at Kolkata
4. Participated in JPC-IISER Workshop on July 18, 2018 held at IISER Kolkata
5. Poster presentation at the 50th Symposium on Theoretical Chemistry at Vienna University, Vienna, Austria, September 14-18, 2014
6. Participated in Gaussian Workshop India held at CLRI, Chennai and Indian Institute of Technology Madras, January 2-6, 2012
7. Oral Presentation at 13th European Symposium on Organic Reactivity held at the University of Tartu, Estonia, September 11-16, 2011
8. Poster Presentation at Theoretical Chemistry Symposium 2010 held at Indian Institute of Technology Kanpur, December 8-12, 2010
9. Poster Presentation at International conference on Education in Chemistry-2010 held at HBCSE (Tata Institute of Fundamental Research), Mumbai, November 12-14, 2010
10. Participated in Indo-US Lecture Series in Discrete Mathematical Chemistry held at PES Institute of Technology Bangalore, January 8-11, 2007

11. Oral Presentation at 43rd Symposium on Theoretical Chemistry held at der Universität des Saarlandes, Söbrücken, Germany, September 16-20, 2007

12. Oral Presentation at Asian pacific Conference on Theoretical & Computational Chemistry-2 held at the Chulalongkorn University, Bangkok, Thailand, May 2-6, 2005

**Seminar/Workshop Organized:**

1. Local Coordinator, Science Academies' Lecture Workshop on Frontiers of Chemistry: Fundamentals & Applications sponsored by Indian Academy of Sciences, Bangalore; National Academy of Sciences (India), Allahabad and Indian National Science Academy, New Delhi at Bejoy Narayan Mahavidyalaya in December, 2017

2. Joint Secretary, National Seminar on Chemistry for Life and Future sponsored by the University Grants Commission, New Delhi at Ramananda College in April, 2012

3. Local Coordinator, Science Academies' Lecture Workshop on Concepts in Chemistry sponsored by Indian Academy of Sciences, Bangalore; National Academy of Sciences (India), Allahabad and Indian National Science Academy, New Delhi at Ramananda College in September, 2007

**Administrative Experience:**

1. Convener, Seminar, Workshop and Conference Committee (2017-2018)

2. Member, Health and Hygiene Committee (2017-2018)

3. Head, Department of Chemistry at Ramananda College

4. Member, Library Committee at Ramananda College

5. Member, Leave Committee at Ramananda College

### **Membership of Professional Bodies:**

1. Life Member, Indian Science Congress Association, Kolkata
2. Ex-Member New York Academy of Sciences, New York
3. Life Member, Association of Chemistry Teachers, Homio Bhaba Centre for Science Education, Mumbai
4. Life Member, Indian Association for the Cultivation of Science, Jadavpur, Kolkata
5. Life Member, Indian Society for Radiation and Photochemical Sciences, Bhaba Atomic Research Centre, Mumbai

### **Awards/Honours/Fellowships:**

1. Awarded Merit/National Scholarship from Class 9th Standard to M.Sc.
2. Awarded Junior and Senior Research Fellowship through CSIR-UGC NET 1992
3. Qualified in Graduate Aptitude Test in Engineering (GATE) 1993
4. (a) Summer Research Fellowship of Indian Academy of Sciences, Bangalore, to work at Indian Institute of Technology Kharagpur (2006)  
(b) Summer Research Fellowship of Indian Academy of Sciences, Bangalore; National Academy of Sciences (India), Allahabad and Indian National Science Academy, New Delhi (2007, 2008)
5. CTS Visitors Program Fellowship at Indian Institute of Technology Kharagpur (2010, 2011, 2013, 2014)
6. Travel Grants (abroad) from UGC, CSIR and DST to visit Thailand, Germany and Estonia
7. Teacher Invitee, Annual Meeting of Indian Academy of Sciences, Bangalore held at Thiruvananthapuram (2007), Chandigarh (2013) and BHU, Varanasi (2018)