

Curriculum Vitae of Dr. V. K. Gupta



- Name** : Dr. Vinod Kumar Gupta
FWIF, FNASc
- Designation** : Professor of Chemistry
- Father's Name** : (Late) Sri. J.L. Gupta
- Date of Birth** : 17th January 1953
- Mailing Address** : **Dr. V.K. Gupta**
Professor and Head
Department of Chemistry
INDIAN INSTITUTE OF TECHNOLOGY,
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vinodfcy@gmail.com
- Academic Qualification** : B. Sc. (1st Div.) 1972, Meerut University
M.Sc. (1st Div.) 1975, University of Roorkee
Ph. D. 1979, University of Roorkee
- Employment Record** : Post Doctoral Fellow (CSIR), Univ. of Roorkee, 1979-81.
Pool Officer (CSIR), Univ. of Roorkee, 1981-83.
Lecturer, Univ. of Roorkee, 1983-94
Marie Curie Fellow of European Commission, Univ. of
Regensburg, Germany Feb.1993- July 93.
Reader/ Assistant Professor, Univ. of Roorkee, 1994-98.
Associate Professor, Univ. of Roorkee, 1998-2001
Professor. I IT Roorkee, Roorkee, Since 2001

Teaching Experience : Thirty three years teaching experience (Physical, Analytical and General Chemistry) of under-graduate Engineering and Post-graduate classes, Department of Chemistry, Indian Institute of Technology Roorkee (formerly University of Roorkee)

Field of Research :
1. Environmental Chemistry
2. Electro-analytical Chemistry
3. Chemical sensors
4. Waste Management

Research Experience : Thirty two years research experience
(a) Ph.D. Thesis supervised – **33**
(b) Ph.D. Thesis in progress – **09**
(c) M. Phil Thesis supervised – **10**
(d) M.Sc.Dissertation supervised –**33**

PUBLICATIONS:

Books: 1. Nano Chromatography and Capillary Electrophoresis: Pharmaceutical and Environmental Analyses, John Wiley & Sons, Inc. (2009).

2. Environmental Water: Advances in Treatment, Remediation and Recycling, Elsevier (2012).

Books Chapters: 12 Invited chapters in books and encyclopedias

Research Papers/Reviews: 310 Papers in International Peer Reviewed Journals with high Impact Factors (Indian Journals - **28** Foreign Journals – **282**); **23** reviews in highly cited Journals (Citations: **More than 11000** with ***h* index = 68**).

Papers presented at various National and International Conferences. 50

Academic Visits Abroad:

Australia, Canada, Hungary, Italy, Japan, Netherlands, New Zealand, Singapore, Thailand, U.K., U.S.A., Germany, Hongkong, South Korea, France, Belgium, Saudi Arabia, Switzerland, Sweden, Iran

Ongoing Major Sponsored Research Projects

1. FIST Programme, DST, 2009-2014 with outlay of 145 Lac
2. Development of effective adsorbents from waste rubber tires for waste water treatment, DST, Approved from May 2012 for 3 years with outlay of more them 20 Lac

Major Sponsored Research Projects Completed During the recent past.

1. Studies on some highly selective receptors and their use in chemical sensors for ion recognition (DST-DAAD Project Based Personnel Exchange Programme (PPP)-2002-2005).
2. Removal of toxic substances from wastewater using inexpensive alternatives to carbon (CSIR, New Delhi, Sep.2002-2005).
3. Development of low cost adsorbents for the removal of toxic metal ions from water using algal biomass(DST, GOI, Oct. 2006- 2009 Project cost Rs. 14.50 lacs).

National and International Collaboration:

1. National Institute of Hydrology, Roorkee, India.
2. Central Building Research Institute, Roorkee, India.
3. Industrial Toxicology Research Centre, Lucknow, India.
4. Jiwaji University, Gwalior, India.
5. Chemnitz Technical University, Chemnitz, Germany.
6. Freie University of Berlin, Germany.
7. Korea National University of Education, Seoul, South Korea.
8. University of Regensburg, Regensburg, Germany.
9. University of Belgrade, Bor, Serbia, Yugoslavia.
10. King Fahd University of Petroleum and Minerals, Dhahran-31261, Saudi Arabia
11. University of Leuven, Leuven, Belgium.
12. King Fahd University of Petroleum and Minerals Dhahran, Saudi Arabia.

Recognitions:

1. Highly Cited Researcher in Ecology and Environmental Engineering as per Thomson ISI.
2. Offered KFUPM Chair Professorship by King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, 2009.

3. Editor of following International Journals:

Editor- Environmental Science and Pollution Research
Senior Editor- Insciences Journal - Sensors
Associate Editor -International Journal of Industrial Chemistry

4. Membership of Editorial Boards of the

OXIDATION COMMUNICATIONS (1982- onwards)
SENSORS (2000- onwards)
ELECTRONIC JOURNAL OF MATHEMATICAL AND PHYSICAL SCIENCES
SENSOR LETTERS (2002 – onwards)

TALANTA (2005 - 2007).
 INDIAN JOURNAL OF CHEMICAL TECHNOLOGY (2005 onwards)
 INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE (2006 onwards)
 RECENT PATENTS ON ENGINEERING (2007-onwards)
 J. Hazardous Materials (2007-onwards)
 International Journal of Chemical Engineering (2008 -onwards)
 International Journal of BioSciences and Technology (2008- onwards)
 The Open Waste Management Journal (2008- onwards)
 Analytical & Bioanalytical Electrochemistry (2009-onwards)
 J. Coll. Interface Science (2010 onwards)
 Advanced Materials Letters (2010 onwards)
 Desalination and Wastewater Treatment (2010 onwards)
 Toxicological & Environmental Chemistry (2010 onwards)
 Chemical Sensors (2010 onwards) .
 J. Sensor echnology

Besides above, edited two special issues of The **SENSORS** on 'Ion sensors' and 'Chemical Sensors for Heavy Metals'.

5. Delivered Lectures at the University of Western Australia, Perth, (Australia); Yokohama National University, Yokohama, (Japan); Kyushu University, Fukuoka, (Japan); Leveun University, Leuven, Belgium; University of Twente, Enschede, Netherlands; Technical University of Chemnitz, Chemnitz, Germany; Free University, Brussals, Belgium; University of Texas at San Antonio, USA; National University of Singapore (NUS), KFUPM, Dhahran, Saudi Arabia
6. Chaired Sessions in **13** International Conferences in Hungary (1982), New Zealand (1984), Germany (1988, 2005), Canada (1992), South Korea (1996), Switzerland (2000), Japan (2001), France (2003), USA (2005), Singapore (2006, 2008), Iran (2012).
7. Fellow of World Innovation Foundation (F.W.I.F.) (2004).
8. Fellow of National Academy of Sciences (FNASc) (2008).
9. Membership of the Research Degree Committees / Board of Studies for the following National level Institutions:

Convenor RDC in Chemistry, U. P. Technical University, Lucknow, India.
 HNB Garhwal University, Srinagar (UA) (2003-onwards)
 Rajeev Gandhi Technical University Bhopal (M.P.)(2006-onwards).
 Mizoram University, Aizwal (2006-onwards).
 National Institute of Technology, Bhopal (M.P.) (2002-onwards).
 National Institute of Technology, Kurukshetra (Haryana) (2006-onwards).
 C R University of Science & Technology, Murthal, Haryana
 IT, BHU, Varansi
 GND University, Amritsar
 NIT, Jalandhar(Punjab)

10. Membership of following Advisory Boards/ Committees:

INTERNATIONAL SYMPOSIUM ON SENSORS SCIENCE, held at PARIS (France) 16 - 20 June 2003.

INTERNATIONAL SYMPOSIUM ON SENSORS SCIENCE, held in China, 16 - 20 June 2004.

Department of Science and Technology, Govt. of India's to monitor a center at Kumaun University, Nainital (UA) 2002- onwards

Third IEEE International Conference on Systems, Signals & Devices (SSD'05), March 21-24, 2005, Sousse – Tunisia.

American Biographic Institute (2003-onwards).

Indira Gandhi National Open University for Curriculum development

INTERNATIONAL SYMPOSIUM ON COLLOIDS AND MATERIALS TO BE HELD AT AMSTERDAM, THE NETHERLANDS, MAY 2011.

11. Invited to Chair a session/ speaker in the following International Events:

28th Annual International Symposium on Environmental Analytical Chemistry held in Geneva, Switzerland March 1-5, 1998.

5th East Asian conference on Chemical Sensors (EACCS' 01) held at Huis Ten Bosch, Nagasaki, Japan during 4-7 Dec. 2001.

9th International Meeting on Chemical Sensors, Boston, USA, 7-11 July 2002.

National Seminar on Recent Advances in Analytical Chemistry, to be held at J. N. Vyas University, Jodhpur, India, Nov.- Dec. 2004.

41st Annual Convention of Chemist 2004, Delhi, Dec.2004.

6th East Asian Conference on Chemical Sensors held at Guilin, China (November, 2005).

13th International Conference on Flow Injection Analysis and Related Techniques (ICFIA 2005), Las Vegas, Nevada USA, April, 2005.

4th ISE Spring Meeting 2006 held in Singapore during 17-21 April 2006.

Invited Speaker at the 1st Regional Electrochemistry Meeting of South-East Asia 2008 to be held at National University of Singapore, Singapore During 5-7th August 2008.

12. Visiting Professor at Department of Environmental Chemistry, Jiwaji University, Gwalior. India.

13. Chair Professor, Department of Chemistry, KFUPM Dhahran, Saudi Arabia

Awards:

- KHOSHLA RESEARCH PRIZE (Commendation Certificate) 1991.
- EUROPEAN COMMISSION POST DOCTORAL FELLOWSHIP awarded by European Commission and DST, Govt. of India in 1992 - 1993 to work at Institute of Organic Chemistry, University of Regensburg (Germany).

- FIRST KHOSLA RESEARCH AWARD and GOLD MEDAL, 1996.
- SECOND KHOSLA RESEARCH AWARD and SILVER MEDAL, 1996
- DAAD Visiting Professorship for two months during 2002-2003.
- Star Performer at IIT, Roorkee in the Session 2002-2003; 2003-2004.
- Fellow of the World Innovation Foundation (2004).
- India Citation Laureate Award (2004).
- Star Performer at IIT, Roorkee in the Session 2004 - 2005.
- Star Performer at IIT, Roorkee in the Session 2005 - 2006.
- Star Performer at IIT, Roorkee in the Session 2006 - 2007.
- Fellow of the National Academy of Sciences, (FNASc) 2008.

Membership of Scientific Societies:

1. Life Member Indian National Science Congress Association.
2. Elected Member of Chemistry Sectional Committee for 89th Session of ISCA (2001-2002)
3. Life Member Indian Society for Electro analytical Chemistry (ISEAC)
4. Member International Society of Electrochemistry.

Organization of National/ International Conferences

1. Member organizing committee in the Symposiums on Recent Trends in Instrumental Methods of Analysis, University of Roorkee, March 12-14, 1985; March 2-4, 1989; March 24-26, 1992; Sep, 18-20, 1997
2. Member organizing committee in the International Conference on Planning for 21st Century, University of Roorkee, Oct. 2-4, 1997.
3. Member organizing committee in the National Seminar on KNOWLEDGE MANAGEMENT, University of Roorkee, March 5th, 2000.
4. Member National Advisory Committee of Second International Seminar on Analytical Techniques in Monitoring the Environment, Tirupati, AP, Dec.18-20, 2000
5. Member Organizing Committee in the National Symposium on Radiation and Photochemistry, to be held at University of Roorkee, Feb.21-23, 2001.
6. Member National Advisory Committee of the National Symposium on Advanced Instrumental Methods of Analysis held during 7-8 June 2002 at Dehradun (UA).
7. Organizing Secretary 22nd Annual Conference of Indian Council of Chemists, held at Roorkee, India, 17-19 Oct. 2003.
8. Chairman for Symposium on "Role of Chemical Sensors in Environmental Monitoring in Asia" in the 6th East Asian Conference on Chemical Sensors held at Guilin, China during November 2005.
9. 6th East Asian Conference on Chemical Sensors held at Guilin, China (November, 2005).
10. Member Advisory Committee of National Conference on Greener Aspects of Electrochemistry held at Jiwali University, Gwalior, during 7-9 Dec. 2007.
11. Member International Advisory Committee of the "Regional Electrochemistry Meeting of South-East Asia (REMSEA)" to be held at NUS, Singapore during 5-7 Aug. 2008

12. Member International Advisory Committee of The sixth International Multi-Conference on Systems, Signals and Devices SSD'09, 23-26 March 2009, Jerba, Tunisia
13. Member International Scientific Committee for Colloids & Materials 2011, to be held during 8-11 May 2011, Amsterdam, The Netherlands

Chronological statement of Administrative Experience

IIT Roorkee (Formerly University of Roorkee) assigned the following important administrative positions in addition to my academic responsibilities. The duties and responsibilities of each of these positions were discharged earning recognition and credibility:

- Head of the Chemistry Department (01-01-2011 onwards)
- Member, Executive Committee of Senate (1.1.2006-31.12.2008 and 01-01-2011 onwards)
- Professor in-charge Security (01-01-2009 till 25 Sep. 2009)
- Dean of Students' Welfare (1.1.2006- 31.12.2008)
- Assoc. Dean of Students' Welfare (01.01.2003 – 31.04.2006)
- Chairman, Discipline Committee of IIT Roorkee (01.01.2003 to 31.04.2006)
- Chairman, Coordinating Committee of Bhawans (CCB) (01.01.2003 to 31.04.2006)
- Member, Board of Post Graduate Studies and Research (2003 – 2006)
- Vice Chairman JEE-P 2003 (Entrance for Uttaranchal Polytechnics)
- Staff Advisor, Yogic Exercises (one year) and Dy. Chief Advisor, Institute Educational Cinema Club (2002 – 2005)
- Chief Warden Govind Bhawan (1.6.95 to 31.3.98) and Azad Bhawan (13.6.2000 -31.12.2002) and Warden of few Bhawans.
- Elected Member of University of Roorkee Syndicate (11.2.2000 - 20.9.2001) and first BoG of IIT Roorkee (21.09. 2001 -March 2002).
- Dy. Officer-in-Charge University of Roorkee Convocation-2001
- Officer In charge, University Vehicle Section (1998 to 1999), Coordinator Transportation REE-1994 & 1995, CPMT (1998 & 1999)
- Member, University of Roorkee Senate (1995 to 1998).

Publications

Books

1. **Nano Chromatography and Capillary Electrophoresis: Pharmaceutical and Environmental Analyses**, John Wiley & Sons, Inc. (2009).
2. **Environmental Water: Advances in Treatment, Remediation and Recycling**, Elsevier (2012).

Invited chapters:

1. **Synthetic Dyes** for the '*Handbook of TLC*' Marcel and Dekker, U.S.A. **1990**.
2. **Synthetic Dyes** for the '*Handbook of TLC*' Marcel and Dekker, U.S.A. **1996**.
3. **Adsorbents for Water Treatment: Low Cost Alternatives to Carbon** for the '*Encyclopedia of Surface and Colloid Science*' edited by Arthur Hubbard for Marcel Dekker, U.S.A., volume 1, pages 136-166, **2002**.
4. **Synthetic Dyes** for the '*Handbook of TLC*' Marcel and Dekker, U.S.A. **2003**.
5. **Adsorbents for Water Treatment: Development of Low Cost Alternatives to Carbon** for the updated '*Encyclopedia of Surface and Colloid science*' edited by Somasundaran for Marcel Dekker, Pages 1-34, **2003**.
6. **Advances in Chiral Pollutants Analysis by Capillary Electrophoresis** for '*Encyclopedia of Chromatography*' published by Marcel Dekker, 2004 pages 92-100.
7. **Adsorbents for Water Treatment: Development of Low Cost Alternatives to Carbon** for '*Encyclopedia of Surface and Colloid Science*', Second Edition; Taylor & Francis: New York, 2006; 1, pp. 149 – 184.
8. **Ion-Selective Electrodes for Sensing of Metal Cations** for the '*Encyclopedia of Sensors*' **Volume 5**, edited by Craig A. Grimes and Beth Dickey, published by American Scientific Publishers (2006) pp.133-150.
9. **Metal Ions Speciation in the Environment: Distribution, Toxicities and Analyses for the book Concepts and Applications in Environmental Geochemistry, Developments in Environmental Science, Volume 5:** edited by Dibyendu Sarkar, Rupali Datta and Robyn Hannigan, published by Elsevier (2007), pages 33-56.

10. **Electrochemical Sensors for Liquid Environment**, for the book "Chemical Sensors" edited by Prof. Ghenadii Korotcenkov and published by Momentum Press (USA) (2011) Vol. 5 pages 125-169.
11. **Syntheses of Carbon Nanotube-Metal Oxides Composites; Adsorption and Photo-degradation**, for the book "Carbon Nanotubes - From Research to Applications" Edited by: Stefano Bianco; Published by Publisher: InTech; ISBN 978-953-307-500-6 (2011) pages 295-312.
12. **Adsorption on carbon Nanotubes**, For the book "Solvent Extraction, Ion-exchange and adsorption" Edited by: Dr. Naushad Ghauri : to be published by, Nova Science Publishers, Inc., USA. (2012)

Reviews:

1. V. K. Gupta, I. Ali, and H.Y. Aboul-Enein, Chiral resolution of some environmental pollutants by capillary electrophoresis, **Electrophoresis**, **24(9)** 1360-1374-(2003).
2. V. K. Gupta, I. Ali, and H.Y. Aboul-Enein, Chirality: A challenge for the Environmental Scientists, **Current Science**, **84(2)**, 152-156 (2003).
3. V. K. Gupta, Potentiometric sensors for heavy metals- an overview, **Chimia**, **59**,209-217(2005).
4. I. Ali, V.K. Gupta and H.Y. Aboul-Enein, Metal Ion Speciation and Capillary Electrophoresis: Application in the New Millennium, **Electrophoresis**, **26(21)** 3988-4002 (2005).
5. I. Ali, H.Y. Aboul-Enein, V.K. Gupta and Sam F.Y. Li, Pharmaceuticals analysis by capillary electrophoresis at nanolevel detection **J. Cap. Electrophoresis and Microchip Tech.**, 009(5/6), 85 - 99 (2006).
6. I. Ali and V. K. Gupta, Advances in Water Treatment by Adsorption Technology, **Nature Protocols**, **1(6)**, 2661 - 2667 (2007).
7. I. Ali, V. K. Gupta, H. Y. Aboul-Enein, P. Singh, B. Sharma, Role of racemization in optically active drugs development, **Chirality**, **19(6)**, 453-463 (2007).
8. V. K. Gupta, I. Ali, H. Y. Aboul-Enein, Metal Ions Speciation in the Environment: Distribution, Toxicities and Analyses, **Developments in Environmental Science**, 5 (2007) 33-56.
9. I. Ali, V. K. Gupta and H. Y. Aboul-Enein, Capillary Electrophoresis at Nano Level Detection : Applications in pharmaceutical analysis, **Egypt. J. Chem., Special Issue (M.Sidky)**, 1-29 (2007).

10. I. Ali, V. K. Gupta, H. Y. Aboul-Enein, Chiral Resolution of Racemic Environmental Pollutants by Capillary Electrophoresis, **Critical Reviews in Analytical Chemistry**, **38**, 132-146 (2008).
11. Imran Ali, V.K. Gupta, Hassan Y. Abul-Enein and Afzal Hussain, Hyphenation in Sample Preparation: Advancement from Micro to Nano World, **J. Sep. Sci.** **31**, 2040-2053 (2008).
12. Imran Ali, Hassan Y. Aboul-Enein and V.K. Gupta, Microchip-Based Nano Chromatography and Nano Capillary Electrophoresis in Genomics and Proteomics, **Chromatographia**, **69**, S13-S22 (2009).
13. V.K.Gupta and Suhas, Application of low cost adsorbents for dye removal- A review, **J. Environmental Management**, **90**, 2313-2342(2009).
14. V.K. Gupta, P.J.M. Carrott, M.M.L. Ribeiro Carrott, Suhas, Low cost adsorbents: Growing approach to wastewater treatment – A review, **Critical Reviews in Environmental Science and Technology**, **39**, 783–842 (2009).
15. V.K. Gupta, Potentiometric sensors for inorganic anions based on neutral carriers - a review, **The Arabian J. Sci. Engg. A-Science**, **35(2A)**, 7-25 (2010).
16. V. K. Gupta, R. Jain, Shilpi Agarwal, Voltammetric Techniques for the Assay of Pharmaceuticals-a Review, **Analytical Biochemistry** **408** (2011) 179-196.
17. V. K. Gupta, Shilpi Agarwal and Barkha Singhal, A Review on the Recent Advances on Potentiometric Membrane Sensors for Pharmaceutical Analysis, **Combinatorial Chemistry & High Throughput Screening**, **14(4)**(2011) 284-302.
18. V. K. Gupta, M. R. Ganjali, P. Norouzi, H. Khani, A. Nayak, and Shilpi Agarwal, Electrochemical Analysis of some Toxic Metals and Drugs by Ion Selective Electrodes, **Critical Reviews in Analytical Chemistry**, **41**(2011)282–313.
19. M. Ahmaruzzaman and V. K. Gupta, Rice husk and its ash as low-cost adsorbents in water and wastewater treatment, **Ind. Eng. Chem. Res.**, **50** (24) (2011) 13589–13613.
20. V. K. Gupta, Arunima Nayak, Shilpi Agarwal, Rajendra Dobhal, D.P. Uniyal, Prashant Singh, Bhavtosh Sharma, Shweta Tyagi, Rakesh Singh, Arsenic speciation analysis and remediation techniques in drinking water, **Desalination and Water Treatment**, **40**(2012)231-243.
21. V. K. Gupta, Arunima Nayak, Shilpi Agarwal, Rajendra Dobhal, D.P. Uniyal, Prashant Singh, Bhavtosh Sharma, Shweta Tyagi, Rakesh Singh, Advanced and hyphenated techniques for nano level analysis of iron in water, **Critical Reviews in Analytical Chemistry**, **42**(03)(2012) 245 - 256.

22. V. K. Gupta, Imran Ali, Tawfik A. Saleh, Arunima Nayak, Shilpi Agarwal, Chemical Treatment Technologies for Wastewater Recycling –a Review, **RSC Advances** (2 (2012)6380 – 6388).
23. V. K. Gupta, Arunima Nayak, Shilpi Agarwal, Rajendra Dobhal, D.P. Uniyal, Prashant Singh, Bhavtosh Sharma, Shweta Tyagi, Rakesh Singh, Toxic metal ions in water and their prevalence in Uttarakhand, India, **Water Science and Technology: Water Supply** (In Press).
24. Vinod K. Gupta , Arunima Nayak, Shilpi Agarwal, Low cost adsorbents and activated carbons for remediation of heavy metals from water- a review of their efficiency and underlying mechanism, **Chem. Engg. J.** (Communicated).
25. M. Ahmaruzzaman, V.K Gupta, Application of coal fly ash in air quality management, **Ind. Engineering Chemistry Research** (Communicated).

DETAILS OF ACADEMIC VISITS ABROAD

S. No	From	To	Institute and the Country of Visit	Purpose of Visit
1	26.05.2012	15.07.2012	King Fahd Univ. of Petroleum & Minerals, Dhahram, Saudi Arabia	Guest Professor
2	12.05.2012	23.05.2012	Nuremberg, Germany	Conference
3	04.02.2012	10.02.2012	Iran(Tehran, Masjed-Solyman)	Conference
4	19.06.2011	24.06.2011	Budapest, Hungary	Conference
5	07.05.2011	11.05.2011	Amsterdam, Netherlands	Conference
6	11.09.2010	19.09.2010	Stockholm, Sweden	Conference
7	18.01.2010	23.06.2010	King Fahd Univ. of Petroleum & Minerals, Dhahram, Saudi Arabia	Chair Professor
8	17.04.2009	22.04.2009	King Fahd Univ. of Petroleum & Minerals, Dhahram, Saudi Arabia	Visit and Lectures
9	04.08.2008	08.08.2008	National University of Singapore, Singapore	Conference
10	26.11.2007	01.12.2007	RMIT University Melbourne, Australia	Conference and Academic Visit
11	01.12.2007	03.12.2007	National University of Singapore, Singapore	Academic Visit
12	17.04.06	21.04.06	National University of Singapore, Singapore	Visit and Lectures
13	08.10.05	16.10.05	University of Reading, Reading, UK	Visit and Lectures
14	01.07.05	31.07.05	Chemnitz Technical University. Chemnitz, Germany	Lectures/Research
15	19.07.05	19.07.05	Institut National Polytechnique de Lorraine, Nancy, France	Lecture
16	18.07.05	20.07.05	University of Aachen, Juelichn campus, Germany	Conference
17	24.04.2005	06.05.2005	Las Vegas, University of Texas at San Antonio and Intel at San Jose USA	Conference, lectures and academic visits
18	15.06.2004	14.07.2004	Chemnitz Technical University. Chemnitz, Germany	DST-DAAD Project and Lecture
19	23.06.2004	24.06.2004	Universite Libre de Bruxelles, Bruxelles	Invited Lecture
20	24.06.2004	25.06.2004	University of Leuven, Leuven, Belgium	Academic discussion
21	06.07.2004	07.07.2004	University of Twente, Enchede, The Netherlands	To Deliver a Lecture
22	15.06.2003	17.06.2003	Int. Symposium on Sensors Science	To Chair a Session

23	17.06.2003	19.06.2003	University of Leuven, Leuven, Belgium	To Deliver a Lecture
24	20.06.2003	09.07.2003	Chemnitz Technical University. Chemnitz, Germany	DST-DAAD Proj
25	15.06.2002	31.07.2002	Chemnitz Technical University. Chemnitz, Germany	DST-DAAD Proj. and DAAD. Visiting Prof.
26	27.06.2002	29.06.2002	CCS, ETH Technopark , Zurich Switzerland	Visit and Lecture
27	02.07.2002	03.07.2002	University of Regensburg, Regensburg, Germany	Academic Visit
28	01.08.2002	30.08.2002	Freie University of Berlin, Berlin, Germany	DAAD visiting Prof.
29	01.12.2001	08.12.2001	Yokohama National Univ., Kyushu Univ. & Huisten-Bosch, Nagasaki, Japan	To deliver invited talk and lectures
30	01.07.2000	07.07.2000	Basel and ETH Zurich, Switzerland	Conference & Academic visit
31	25.08.1996	29.08.1996	Inha University, South Korea	Conference
32	30.08.1996	01.09.1996	University of Hong Kong & Hong Kong Univ. of Science & Technology, Hong Kong	Academic visit
33	01.02.1993	23.07.1993	University of Regensburg, and other Institutes, Germany	EC Post Doc. Fellow
34	30.07.1992	07.08.1992	University of Toronto & University of Kingston, Canada	Conference & Visit of Institutes
35	01.07.1990	08.07.1990	University of Kent, U.K	Visit of Institutes
36	21.08.1988	26.08.1988	University of Regensburg, Germany.	Conference & Visit of Institutes
37	24.08.1986	29.08.1986	Tokyo Institute of Technology, Tokyo, Japan.	Conference & Visit of Institutes
38	30.08.1986	06.09.1986	Ohio State Univ., Columbus, U.S.A.	Lecture & Visit of University
39	17.08.1984	19.08.1984	Univ. of Western Australia, Perth, Australia	Visit of Institutes & Lectures
40	20.08.1984	25.08.1984	Univ. of Auckland, New Zealand	Conf. & visit of Institutes
41	17.08.1982	25.08.1982	Central Research Institute for Chemistry, Hungary	Conf. & visit of Institutes

Research Papers:

1. Vinod Kumar Gupta, Deepak Pathania, Pardeep Singh, Adsorptional photocatalytic degradation of methylene blue onto pectin-CuS nanocomposite under solar light, **J. Hazardous Materials** (Communicated).
2. S. Karthikeyan, V. K. Gupta, A.B.Mandal, G.Sekaran, Production of biodiesel and biopolymers from microalgae cultivated on CAACO treated municipal wastewater and application of biopolymer for removal of Cr⁶⁺ from aqueous solution, **J. Hazardous Materials**. (Communicated).
3. R. Saravanan, V. K. Gupta, T. Prakash, E. Thirumal, V. Narayanan, A. Stephen Novel Hg doped ZnO nanorods by thermal decomposition method, **Chemical Engineering Journal** (Communicated).
4. S. Karthikeyan, , V.K. Gupta , M. Ezhilpriya, P.Maharaja, G.Sekaran, Nano porous activated carbon based Heterogeneous Fenton oxidation for enhanced biological oxidation of o, p and m - cresol in aqueous solution: Kinetic and thermodynamic studies, **Chemical Engineering Journal** (Communicated).
5. G. Sekarana, S. Karthikeyan, C. Anandan , V. K. Gupta , P.Maharaja, Preparation and characterization of mesoporous activated carbon and its application in heterocatalytic Fenton oxidation organics in high saline wastewater, **J. Hazardous Materials** (Communicated).
6. Vinod K. Gupta, Deepak Pathania, Shikha Sharma, Removal of Cr (VI) onto Ficus carica biosorbent from water, **Environ Sci Pollut Res**, (Communicated).
7. V. K. Gupta, A. K. Singh, M. Naveen, A new Beryllium ion-selective membrane electrode based on dibenzo(perhydrotriazino)aza-14-crown-4 ether, **Anal. Chim. Acta** (Communicated).
8. P. Norouzi, V. K. Gupta, M. R. Ganjali, F. Faridbod, Flow Injection Analysis of Cholesterol Using FFT Admittance Voltammetric Biosensor based on MWCNT-ZnO nanoparticles, **Electroanalysis** (Communicated).
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DETAILS OF Ph. D. THESIS SUPERVISED

S.No.	Title of Thesis	Year	Name of candidate
(A)	Ph.D. Degree Awarded		
1.	Kinetics and Mechanism of Oxidation of some Sulpha drugs by periodate.	1989	Dr. (Ms) Rashmi Gupta
2.	Kinetics and Synthetic Studies on Cobalt (II), Nickel (II) and Copper (II) Macrocyclic Complexes.	1990	Dr. (Ms) Alka Maheshwari
3.	Kinetics and Mechanism of aminolysis of some Oxime Ethers.	1990	Dr. Anurag Kumar
4.	Studies on Electrochemical Behaviour of some Organic Molecules of Biological Importance.	1991	Dr. Alok Mittal
5.	Kinetics and Mechanism of Aminolysis of Some O-Aryloximes.	1992	Dr. Pritam Singh
6.	Removal of some Inorganic and Organic Toxic Substances using Fertilizer and Blast Furnace Waste Material.	1995	Dr. Dinesh Mohan
7.	Electroanalytical studies with membrane Sensors based on some macrocyclic compounds.	1996	Dr. Suresh Jain
8.	Electroanalytical Studies on Ion Selective Solid Membrane Electrodes for Some Heavy Metals.	1996	Dr. Lok Pratap Singh
9.	Development of Sensors for Heavy metals and Their Removal by Slag-A Blast Furnace Waste Material.	1996	Dr. M.K. Dewivedi
10.	Electroanalytical studies on some Heterogeneous membranes as ion sensors	1997	Dr. Upendra Khurana
11.	Kinetic and Mechanistic Studies of Aminolysis Reactions of some O (2,4-Dinitrophenyl) Derivatives of Cyclic ketooximes	1998	Dr. Neeraj Atrey
12.	Removal of some Inorganic and Organic Toxic Substances from water using Industrial Waste Materials.	1999	Dr. Saurabh Sharma
13.	Electroanalytical studies on Some ionic sensors for heavy metals.	2001	Dr. Pankaj Kumar
14.	Removal of some Toxic Substances from Aqueous Solutions using Industrial Wastes.	2001	Dr. (Ms.) Monica Sharma
15	Development of Chemical Sensors for the Determination of some Toxic Metals.	2002	Dr. (Ms.) Rajni Mangla
16	Synthesis of some New Ionophores and investigation on their potentiality in ion sensing	2002	Dr. Azad Kumar

17	Development of Low Cost Adsorbents from Industrial Wastes for the Removal of Toxic Substances.	2003	Dr. Suhas
18	Removal of Some Heavy Metals, Phenols and Dyes from waste Water using Bagasse fly Ash- A sugar Industry Waste	2004	Dr. I. V. S. Yadav
19	Development of some PVC Based Ion Selective Electrodes and their Applications.	2005	Dr.(Ms) Shiva Agarwal
20	Analysis of some Drugs in wastewater using Chromatographic Techniques.	2005	Dr. H. V. Pant
21	Electrochemical and Adsorption Studies on the removal of some Organic Pollutants, Particularly Dyes, from waste water	2005	Dr. (Ms.) Shaily Varshney
22	Electro analytical studies on some ion selective electrodes	2006	Dr. Jitendra Raisoni
23	Removal of toxic substances from wastewater using inexpensive alternatives to carbon	2007	Dr. Vipin Kumar Saini
24	Development of some Potentiometric Sensors for the Determination of Toxic Metal Ions	2007	Dr. Gaurav Maheshwari
25	Electrochemical studies on some biologically important compounds and ion sensors	2007	Dr. (Ms.) Neeta Bachhetti
26	Removal of dyes from wastewater using photochemical and adsorption techniques	2008	Dr. (Ms.) Shalini Sikarwar
27	Studies on some potentiometric sensors for ion determination	2008	Ms Barkha Gupta
28	Chromatographic analysis of some drugs in biological samples	2009	Ms. Uma Negi
29	Electro-organic Chemistry of some Biomolecules	2010	Mr. Ramo Avtar Sharma
30	Studies on some biosensors for drugs	2010	Mr. Manoj Pal
31	Electroanalytical studies on some biologically important compounds	2010	Ms.Sanghamitra Chatterjee
32	Synthesis and Characterization of Carbon Nanotube-Based Composites and their Applications for Water Treatment	2011	Mr. Twafik A. Saleh
33	Development of low cost adsorbents for waste water treatment	2012	Ms Arunima Nayak

B	Ph. D. Thesis in <i>Progress</i>	
1.	Bio-fuels process development	Ms. Payal Tiyaagi
2.	Electroanalytical studies on some ion selective membranes electrodes	Mr. A. K. Bharti
3.	Electrochemical Sensors for Bio-molecules and Metal ions	Mr. Sudhir Kumar Shoora
4.	Synthesis of chelating ionophores for the potentiometric Sensors for some ions	MR. M. Naveen
5.	Electroanalytical studies on some ion sensors based on chelating ionophores	Mr. L. K. Kumawat
6.	Studies on lignocellulosic-isocyanate polymer Composites	Ms. Monika
7.	Nanomaterials	Mr. Monu
8.	Design and synthesis of novel anti-malarials using rational drug design	Mr. Manoj Kumar
9.	Bioremediation of some toxic substances from waste water using living biomass	Ms. Prerna Singh

DETAILS OF M.Phil., THESIS SUPERVISED

S.N.	Title of Thesis	Year	Name of candidate
1.	Isolation of Phytosterols from Agricultural Wastes Press Mud of Sugarcane and Foot of Soyabean Oil Industry.	1992	Mr. Vivek Kumar
2.	Studies on the Removal of Lead and Copper by Blast Furnace Slag - A Waste Material Generated in Steel Plants.	1994	Ms. Rajni Tyagi
3.	Studies on the Application of Slag-A Blast Furnace Waste Material, for the Removal of some Heavy Metals	1995	Ms. Arshi Rastogi
4.	Studies on the Removal of Lead and Chromium by Using Bagasse fly ash-A Sugar Industry Waste material.	1996	Ms.Smriti Maheshwari
5.	PVC based Organic Exchanger and Neutral Carrier Membranes as Ion-Selective Electrodes For the Determination of Sr(II) and Cd(II) ions.	1997	Ms. Shivani
6.	Kinetic Studies on the Aminolysis Reaction of O- (2,4-dinitrophenyl) p-hydroxyacetophenone Oxime	1997	Ms.Bhawna Kulshreshta
7	Removal of Copper from Aqueous Solutions using Red Mud - An Aluminum Industry Waste	1999	Mr Azad Kumar
8.	Removal of Nickel from Aqueous Solutions using Red Mud - An Aluminium Industry Waste	2000	Mr. Avnish Kumar Arora
9.	Studies on some PVC based heterogeneous membranes as ion sensors	2001	Mr. Saurav Mehta
10.	Removal of some toxic substances from aqueous solutions using waste material	2003	Ms.Ila Dharmsaktu

DETAILS OF M. Sc. DISSERTATIONS SUPERVISED

<i>Degree Awarded</i>		
1.	Silver(I) Catalysed and uncatalysed oxidation of Vanadium (IV) by peroxydisulphate ion in sulphuric Acid.	1984 Mr. N.C. Mathur
2.	Kinetics and Mechanism of osmium(VIII) oxidation of Phosphate in Aqueous Alkaline Medium	1985 Mr. Alok Kumar Sinha
3.	Kinetics and Mechanism of Ruthenium(III) Catalysed Oxidation of some Aliphatic Amines by Hexacyanoferrate(III).	1986 Ms. Minal Jain
4.	Kinetics of Oxidation of Serine and Threonine by Potassium Permanganate in Acid Medium.	1987 Mr. N. Prasad Babu
5.	Kinetics of oxidation of <i>o</i> -methoxy-aniline by Periodate in Acetic Acid-water Medium	1988 Mr. Faizal S.
6.	TLC Separation of Synthetic Dyes on Impregnated Layers.	1989 Ms. Anju Joshi
7.	Kinetics and Mechanism of oxidation of Aniline by Peroxomonosulphate in Acetic Acid-water Medium	1989 Mr. Munish Sood
8.	Removal of Phenolic Wastes by Chlorination	1990 Mr. Anupam
9.	Separation of Copper (II) from Manganese (II), Cobalt (II), Nickel (II) and Zinc (II) using Acetylacetone.	1990 Ms. Nidhi Gupta
10.	Kinetic studies on the Peroxomonosulphate Oxidation of Aniline.	1991 Mr. Alok Kumar
11.	Studies on the Electrooxidation Product(s) of Sulfafurazole.	1991 Ms. Rekha
12.	Kinetics of Oxidation of DL-methionine by Potassium dichromate.	1992 Ms. Vartika Saran
13.	TLC Separation, Identification of Transition Metal Ions and their Quantitative Estimation by AAS.	1994 Mr. Nagendra Dhagarra
14.	Studies on the Removal of some Substituted Phenols using Bagasse fly ash-A Sugar Industry Waste Material.	1994 Ms. Navisha Johri
15.	Studies on PVC Based DBBP and DEPHA Membrane Electrodes for the Determination of Vanadyl Inos.	1995 Ms. Shalini Jain
16.	Separation and Identification of Some Transition Metal Ions by Thin Layer Chromatography.	1995 Mr. Vijay K. Bhaskar

17.	Removal of Phenol and p-Chlorophenol from Wastewater using Baggase Fly ash- A Sugar Industry Waste Material.	1996	Ms. Pallavi Jain
18.	Studies on PVC Based TPP and TMPP Membrane Electrodes for the Determination of Nickel (II) ions.	1996	Mr. Kaushik Dutta
19.	Removal of Rhodamine-B and Methylene blue from aqueous solutions using bagasse fly ash - A Sugar Industry Waste.	1997	Mr. Sachin Varshney Vivek
20.	Studies on the adsorption of zinc (II) ions on Red mud - an aluminium industry waste.	1998	Mr. Suhas
21.	A PVC based dibenzo-18-crown-6 potentiometric sensor for Sr (II) ions.	1998	Ms. Shilpa Khurana
22.	Kinetics and mechanism of aminolysis reactions of o- (2,4-dinitrophenyl)-cyclohexanone oxime in toluene	1999	Mr. Navneet Kumar Tyagi
23.	Studies on Poly (Vinyl Chloride) Based Heterogeneous Membrane Electrode Selective for Cd ²⁺ ions.	2000	Ms. Pooja Saxena
24.	Removal of congo red from aqueous Solutions using bagasse fly ash	2001	Mr. Ram Kuntal Hazara
25.	Study on PVC Based Ion Selective Electrode for Nickel (II) Ions	2002	Ms. Surabhi Arya
26.	Study on PVC based ion selective electrode for cadmium (II) ion	2003	Ms. Soni Gejwal
27.	Electroanalytical Studies on a Poly (Vinyl Chloride) Based Membrane Electrode for Ca (II) Ions	2004	Mr Srinivasa Rao Kadali
28.	Electroanalytical Studies on a poly (vinyl chloride) based ion selective electrode for Ni (II) Ions	2005	Mr. Shobhit Nigam
29.	Development of PVC Based Ion-Selective Electrodes for Mn (II) Ions	2006	Ms. Priya Aggarwal
30.	Adsorption studies on the removal of Cr (VI) from aqueous solutions by Carbon Slurry- A Waste Material	2008	Mr. Ajeet Singh
31.	Synthesis of a novel ionophore and its use in PVC membranes for the Determination of Zn ²⁺	2009	Mr. Satya Narayana
32.	Removal of vanadium from aqueous solutions using red mud-an aluminum industry waste as adsorbent	2011	Mr. Tushar Suhasaria
33.	Removal of Methyl red from aqueous solutions using red mud-an aluminium industry waste	2012	Mr. Bachhav Gaurav Dilip