

UNIVERSITY DEPARTMENT OF CHEMISTRY

1. Name of Head of the Department :- DR. MITHILESH KUMAR
2. Courses offered along with name of course in – charge :- CHEMISTRY
3. Syllabus of each course :- Attached
4. Specialization offered :- (a) Physical (b) Inorganic (c) Organic
5. Conference /seminar/symposium organized (if any):- National Seminar on photo chemistry and lesser in chemistry Dated:- 22.03.2007 and 23.03.2007 (Two Days)
- 6.

(i.) Name: : **DR. MITHILESH KUMAR**

(ii.) Designation : Professor



(iii) Photographs : 

(iv) Highest Degree : Ph.D. , Post Doctoral (Texas) U.S.A.

(v) Date of Joining : 08 March, 1978

(vi) Courses taught in last five years:-

- (a) Quantum chemistry
- (b) Solid state chemistry
- (c) Enzyme chemistry
- (d) Environmental Chemistry
- (e) Organometallic chemistry

(vii) Date of promotion to higher scales (senior scale/reader/professor etc.)

Reader : 22-12-1986 under merit promotion scheme.

Professor : 08-03-1994

(viii) Specialization : Inorganic

- (ix) List of research papers.

LIST OF PUBLICATIONS

- 1. M.Kumar* and K.K. Tinku, synergism of flyash on soil fertility and its productivity; A case study of flyash of Kanti thermal power Plant, Muzaffarpur, (Bihar) Accepted for publication in International society for Tropical Ecology (J.N.U.)**
- 2. M.Kumar* , K.E.Georgie, N. Kumar & K.K. Tinku; Some Aspect of Abiotic studies of Polluted Turkaulia Lake at Motihari (North Bihar),India Environment & Ecology 28(2B): 1313-1316, 2010.**
- 3. M. Kumar*, S.Sharma, N. Kumar and K.K. Tinku; Effect of Seasonal variation on the Biotic and Abiotic Factors of Dighi Pond at Darbhanga (North Bihar), India, Environmental and Ecology, 27 (3) 1979-1082, 2009.**
- 4. M. Kumar*, K.E. Georgie N. Kumar and K.K. Tinku Synthesis, characteriation and Bocidal Activity of Ethylene dicystein and their metal complexes, J.of Pharmicy and Chemistry, Vol-3, (3) 2009.**
- 5. M.Kumar*, 2002. Physicochemical and antimicrobial studies on Ni(II) and Cu(II) Schiff base complexes derived from Furan-2-aldehyde. Oriental Journal of Chemistry. Vol 18 (3); 559-562.**
- 6. M.Kumar*, 2001. Synthesis and structural behaviour of Co(II) complexes with bidentate schiff base ligands; Oriental Journal of Chemistry. 17(3); 501-504.**
- 7. M.Kumar* and A.K.Singh, 1998. Synthesis and characterization of complexes of Co(II), Ni(II) and Cu(II) with 2-pyrrolidene-m-nitroaniline and 2-pyrrolidene-p Nitroaniline Schiff Bases and their Biological Activity.Asian Journal of Chemistry. 10 (2); 235-237.**
- 8. M.Kumar* and A.K Sinha, 1997. Synthesis and characterization of Cu(II), Ni(II) and Co(II) complexes derived from aromatic diamines and heterocyclic aldehyde. Asian Journal of Chemistry. 9 (1); 91-97.**
- 9. M.Kumar* and R.J. Prasad, 1995. Synthesis and structural behaviour of schiff base complexes derived from vanillin and aliphatic diamines. Asian J. Chemistry. 7 (3); 527-532.**
- 10. M.Kumar* and A.K. Sinha. 1994. Synthesis and characterization of Mn²⁺, Fe²⁺, Co²⁺ and Ni²⁺ complexes of schiff bases derived from phenylene diamines and 3-Carboxaldehyde. Asian J. Chemistry. 6 (4); 782-788.**
- 11. M.Kumar (1994). Synthesis and characterization of Cu(II) complexes derived from phenylene diamines and 3-carboxyldehyde. Asian J.Chemistry. 6 (2); 576-580.**

12. M.Kumar (1994). Synthesis and characterization and biological studies of some Mn(II), Fe(II),Co(II),Ni(II) and Cu(II) with achiff bases derived from vanilline and 1,2 diaminoethane. Asian.J. Chemistry. 6(3); 572-575.
13. M.Kumar* and T.Sharma, (1991). Interaction of schiff bases from aromatic aldehydes, substituted quinazoline-(3H) 4-ones with chromium (III), Cobalt(II), Nickel(II), copper(II), Zinc(II), Cadmium(II) and Mercury(II). J.Indian Chem. Soc. 68; 539-541.
14. M.Kuamr, G.,L. Chourhday* and T. Sharma, (1990). Complexes of bis-(4-hydroxy-3-methoxybenzylidene) –2 amino pyridine with Co(II), Ni(II), Cu(II), Zn(II), Cd(II) and Hg(II). J.Indian Chemical Society. 67; 340-341.
15. M.Kuamr, H.R. Mahto, Vibha Sharma and T. Sharma*, Co-Authors,1989. Transition metal complexes with 3-Amino-2-Methylquinazoline-4(3H)2'4'-dinitrophenylhydrazone. J.Indian Chem. Soc. 66; 73-75.
16. M.Kumar* Mrs Putul Kumari and T. Sharma, (1988). Co(II), Ni(II), Cu(II), Zn(II), Cd(II) and Hg(II) complexes with 3-(m-Nitrobenzyledeneamino) – 2methyl-4(3H)-quinazolone. J.Indian Chem. Soc. 65; 285-286.
17. M.Kumar* and Shivadhar Sharma, (1988). Complexes of 2-thio-3-benzoyl hydantoin with some metal ions of the first transition series. J.Indian Chem. Soc.65; 25-27.
18. M.Kumar*, S.Sharma and T.Sharma, (1988). Complexes of Ti(III), Ti(IV) and Zr(IV) with 2-thio-3-benzoylhydantoin. J.Indian Chem.Soc.65; 708-710.
19. T.Sharma, S.Sharma and M.Kumar*, (1987). Mixed ligand complexes of Mn(II), Co(II) and Ni(II) and Cu(II) with O-ethylmercaptobenzoic acid as primary ligands, pyridine and methyl pyridine as co-ligands. J.Indian Chem Soc.64; 695-696.
20. M.Kumar*, Mrs. Abha Choudhary and Shivadhar Sharma, (1985). Complexes of Vanadium(II), Oxovanadium (V) with 2-thio-3- benzylhydantoin. Indian J.Chemistry. 25A; 281-282.
21. S.Sharma*, M.Kumar and T.Sharma. 1985. Complexes of Zn(II), CD(II) and Hg(II) with 2-thio-3-benzoylhydantoin. J.Indian.Chem.Soc. 52; 761-762.

LIST OF PAPER PRESENTED IN SEMINAR/ SYMPOSIA

1. Synthesis and Structural Study of Shciff base Complexes of aromatic aldehyde and aminotriazole- presented at 101st I.S.C. at Jummu, Feb, 03.07.2014
2. Synthesis, characterization and biological applicatin of Schiff base containing compounds derived from Isatin and 2-amino, 4-methyl/ethyl phenol with

Cr(III), Fe(III), Co(III), Ni(II) and Cu(II) metal ions''-Presented in the 50th convention of chemists held at Chandigarh from 4th-7th December, 2013.

3. Viscosity and conductance studies of hydrated aluminium trichloride, chromium and ferric chloride in water and aqueous dimethyl formamide in 305K, 308 ka and 313k presented at 50th convention of chemists held at Chandigarh from 4th-7th December, 2013.
4. Comparative account of removal of Ph (II) from fly-ash made geo-polymer and from rice husk in food industrial waste water, accepted for poster presentation at National conference on Advances in Chemical Sciences (ACS-2013) held at M.D. University Rohtak from March 1-2, 2013.
5. Effectiveness of fly-ash from Kanti Thermal plant (Muzaffarpur) in controlling aquatic pollution . Published in 100th proceeding of Indian Science Congress held at Kolkata from 3-7 th Jan. 2013.
6. Spectrophotometric determination of Hg(II) in water and soil samples using Schiff base. Accepted for publication in the proceeding of 99th Indian Science Congress held at Bangalore, 3-7 January 2012.
7. Physico-Chemical Analysis of ground water at some selected sites in Muzaffarpur town published in 98th session of Indian Science Congress held at Chennai , 2011 from 3-7 th January.
8. Study of effect of Pollutants on the Abiotic and Biotic factors of Turkaulia Lake Lake at Motihari (North Bihar) , India-Accepted for presentation in Seminar to be held at St. Jon's College, Agra in Dec. 2009.
9. "Synthesis and spectral studies of Cu(II) , Co(II) and Ni (II) complexes with bidentate heterocyclic ligand (n, S) communicated to chemical science section of I.Sc. to be held at Trivendram from 3-7 January , 2010.
10. Synthesis and spectral studies of Cu(II), Co(II) and Ni(II) complexes with tetradentate ligand. Oral presentation at 95th Science Congress at Andhra university, Vishakhapatnam. 3-7 jan, 2008.
11. Synthesis and spectral studies of Ni(II) and Cu(II) complexes with tetradentate N2O2 chelators. 43rd annual proceeding of convention of chemists, Jaipur, Dec7,2007.
12. Complexes of Co(II) , Ni(II) and Cu(II) with schiff bases derived from heterocyclic aldehydes and aliphatic diamines. 94th Indian Science Congress, at Chidambaram, Jan,2007.
13. Water conservation- Our common future. 2nd Bihar Vigyan Science Congress at patna, Feb 2007.

14. **Complexes of Co(II), Ni(II), Cu(II), Zn(II), Cd(II) and Hg(II) with schiff base derived from 3-amino-2-methyl quinzaoline-4(3H)-2,4-dimitrophenyl hydrazone and furan 2-aldehyde. 42nd annual convention of chemists held at Visva Bharti.2006.**
15. **Synthesis and chracterization of Mn(II), Zn(II),Co(II),Ni(II), Cd(II) and Cu(II) complexes derived from heterocyclic aldehyde and heterocyclic amine. 93rd Indian Science Congress at A.N.G.R. Agriculture University, Hyderabad-2006.**
16. **Complexes of Tc and Re with Ec-Mn published in proceedings of 92nd session of the Indian Science Congress, at Ahmedabad.2005.**
17. **Complexes of iron, cobalt, copper and Nickel with nitrogen and sulphur containing ligand of biological importance. Oral presentation at 41st Convention of Chemists at Delhi University, 2004.**
18. **Synthesis and Characterization of Cu (II) and Ni (II) complexes with schiff base derived from heterocyclic aldehyde and aromatic diamine . oral presentation at 38th Annual Convention of Chemists, 2001.**
19. **Synthesis and biological activity of complexes of Co(II), Ni(II) and Cu(II) with furfurylylidene-4-chloroaniline and 2- furfurylylidene-4-chloroaniline. Oral presentation at 34th annual Convention of Chemists, 1997.**
20. **Polymeric complexes of Fe(III), Co(II) and Ni(II) with aromatic diamine. presented at Symposium held at Central Soil and Marine Chemical Research Institute, Bhavnagar. 1991.**

(x) Nil

(xi) Nil

(xii) Name of the faculty members in the rank of Associate Professor and Professor working in that specialized area.

(a) Dr. Prem Mohan Mishra , Deptt. of Chemistry, MLSM College, Darbhanga

(b) Dr. Ratan Kumar Choudhary, P.G. Deptt. of Chemistry, L.N.M..U., Darbhanga

(c) Dr. K. Mohanan, Deptt. of Chemistry, University of Kerala, Trivendram.

(d) Anju Saini, Deptt. of Chemistry, Panjab University, Chandigarh.

(e) Gurjaspreet Singh, Deptt. of Chemistry, Punjab University, Chandigarh

(f) Chgaitanya Reddy, NIIT Kurukshetra, Hariyana.

(g) S.G. Shakarwar, Deptt. of Chemistry , Dr. Baba Saheb Ambedkar Marathwada University, Aurangabad, Maharashtra.

(h) A.P. Thakare, P.G. Deptt. of Chemistry, Sri Shivaji Science College, Amravati, Maharastra.

(i) B.G. Thakur, Deptt. of Chemistry, C.M.Sc. College, Darbhanga.

(xiii) Research Projects : Nil

(xiv) Conference/Seminar/Symposium organized : Nil

(xv) Brief CV in PDF Format

C.V. of Mithilesh Kumar
Professor , University Department of Chemistry, B.R.A.B.U.,
Muzaffarpur



1. Name : MITHILESH KUMAR
2. Date of Birth : 10th November, 1953
3. Father's Name : Late Shri Shaligram Singh
4. Designation : Professor

Official Address : Dr. Mithilesh Kumar
Professor & Heade,
University Deptt of Chemistry
B.R. Ambedker Bihar University,
Muzaffarpur.

Residential Address : Satyanjali
Adarsh Nagar, Lane no. -3
Majhaulia, Post- Khabra
Dist – Muzaffarpur – 843146
(Bihar)

5. E-mail : mkumar03@yahoo.co.in
: Mobile : + 919934274517

6. Educational Qualification :

(i) Post Doctoral (2003), M.D Anderson Cancer Centre, Houston,
Texas, (University of Texas) U.S.A.

(ii) Ph.D (1985), Magadh University, Bodh Gaya, Bihar
Dissertation Title : “ Characterisation of some transition metal
Complexes”

(iii) M.Sc. (1977), First class- Ranchi University, Ranchi.

(iv) B.Sc.(Hons), 1974, First Class- Magadh University, Bodh Gaya.

7. Teaching Experience : More than 38 years.
(With effect from 8th March, 1978)

a. Professor : University Deptt. Of Chemistry,
B.R.Ambedkar Bihar University,
Muzaffarpur

1. Thrust area of teaching at M.Sc level :

- (i) Solid State Chemistry
- (ii) Electron Transfer reaction mechanism
- (iii) Types of organotransition metals, their structure, reactivity, synthesis and their application
- (iv) Enzymes, their Kinetics and action mechanism
- (v) Analytical Chemistry (Spectrophotometric estimation of Carbohydrate, Protein and Ascorbic Acid)
- (vi) Environmental Chemistry

2. Research Guidance :

Five students got Ph.D., three students got M.Phil . under my supervision.

3. Research Publications :

- (i) List of publications : 21 (attached separately)
- (ii) Seminar/ Symposia : 20 (attached separately)
- (iii)

4. Membership in Scientific Societies:

- (i) Life member of Indian Chemical Society, Calcutta. F/432 (1980)
- (ii) Life Member of Indian Science congress Association , Kolkata L-15845.
- (iii) Life Member of Indian Society of Analytical Scientists-Delhi chapter (2013)
- (iv) Elected as member of Sectional Committee of section of chemical sciences (2007-08) ISCA .
- (v) Member of Departmental Research Council of B.R.A.B.U, Muzaffarpur.
- (vi) Member of Post Graduate Research Council of B.R.A.B.U, Muzaffarpur
- (vii) Chaired session at Chemical Society and Science Congress.

5. Thrust Area of Research :

Coordination Chemistry, Analytical Chemistry, Water and Soil Chemistry.

DETAILS OF Ph.D./M.Phil DEGREE AWARDED :

a. Putul Kumari (1989), B.R.A. Bihar University.

“ Study of complexes of Transition metal with Nitrogen and Oxygen containing ligands”

- b. Ran Janam Prasad (1994), B.R.A.Bihar University.**
“ Synthesis and Structure of Schiffs Base Complexes”
- c. Arvind Kr. Sinha (1994), B.R.A. Bihar University.**
“ Synthesis and Structural behavior of transition metal complexes”
- d. Bal Ram Singh (2002), B.R.A.Bihar University.**
“ Biochemical studies on seasonal and diurnal variation of planktonic of a water body of Champara n” 21.12.2002.
- e. Georgie K.E. (Ph.D. Awarded in November 2008)**
“ Synthesis and spectral studies of co-ordination compound of 3d-series metal ions with N and S containing ligands” 25.11.2008.

M.Phil DEGREE:

- a. Nilmani Kumar (2007), Directorate of Distance Education, Alagappa University, Tamil Nadu.**
“ Spectrophotometric determination of Ni(II) using p-bromophenyl azo-bis acetoxime and o-methoxy phenyl azo-bis acetoxime”
- b. Krishna Kumar Tinku, (2007), Directorate of Distance Education, Alagappa University, Tamil Nadu.**
“ Synthesis and spectral studies on complexes of Cu(II) metal ions with schiff of thiazole and aromatic aldehyde”
- c. Mukesh Kumar (2007), Directorate of Distance Education, Alagappa University, Tamil Nadu.**
“ Study of structure of Co(II), Ni (II) and Cu(II) with schiff base derived from isatin and aliphatic diamines”

7. Name and designation of non-teaching staff with photograph in jpg format.

(i). ANIL KUMAR THAKUR- ASSISTANCE



(ii) BRAJESHWAR SHARMA –DEMONSTRATOR (RE-DESIGNATED)



(iii) ABHA KUMARI- U.D.C



(iv) S . ALAM- MECHANIC



(v) ARUNA SINGH- U.D.C

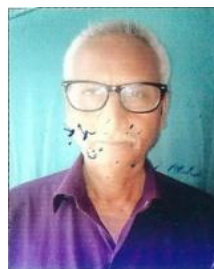


(vi) HARI SHANKAR OJHA- L.D.C



IVTH GRADE

(i). SHYAM NANDAN MAHTO- PEON



(ii) RAM SAROVER RAM –SWEEPER



(iii) PRAMOD RAI- LAB BOY



(iv) CHINTA DEVI- PEON : Photographs not Available

(v) BIMLA DEVI- PEON : Photographs not Available

(vi) CHANDESHWARI MANDAL : Photographs not Available

8. List of Laboratories (if any):- (a) Physical (b) Inorganic (c) Organic.

9. 3-4 photograph of different occasions for photo gallery.

10. list of 20 successful alumni of the department.

1. Dr. Pramod Kumar, Registrar, J.N.U, New Delhi.

2. Satendra Nath Pandey , D.I.G Rail Bhawan, New Delhi.

3. Dr. Surendra Prasad, Deptt. of Chemistry South Pacific University Fiji.

4. Dr. Ashok, Professor , Deptt. of Chemistry Delhi University, Delhi.

5. Dr. S. Mumtazuddin , Former V-C , V.K.S.U Araha Professor University Deptt. of Chemistry B.R.A.B.U Muzaffarpur.
6. Dr. R. Sah, Professor University Deptt. of Chemistry, B.R.A.B.U Muzaffarpur.
7. Dr. N. Haque , Professor University Deptt. of Chemistry, B.R.A.B.U Muzaffarpur.
8. Dr. P.K Sinha, Associate Professor University Deptt. of Chemistry, B.R.A.B.U Muzaffarpur.
9. Dr. S.K Singh , Associate Professor University Deptt. of Chemistry, B.R.A.B.U Muzaffarpur.
10. Dr. B Kumar, Associate Professor University Deptt. of Chemistry, B.R.A.B.U Muzaffarpur.
11. Dr. R.P Singh Associate Professor University Deptt. of Chemistry, B.R.A.B.U Muzaffarpur.
12. Dr. Vina Kumari , Professor Deptt. of Chemistry , Jandaha College Vaishali.
13. Dr. Ram Kumar ,Associate Professor Deptt. of Chemistry R.D.S College Muzaffarpur.
14. Riaz Ahmad Khan, Senior Deputy collector BSBCL Patna.
15. Dr. Khurshid Ahmad ,Associate professor NIIT Patna.
16. Dr. Shashi Kumari , Associate Professor Head of Deptt. of Chemistry L.S College Muz.
17. Dr. Arun Kumar, Professor –in-Charge L.N.D. College Motihari
18. Dr. B.K Rai, Professor & Head Chemistry Deptt. L.N.T College Muzaffarpur.
19. Dr. Magan Prasad, Associate Professor Deptt. of Chemistry M.S.J College Bharatpur 321001 Rajsthan.
20. Dr. C.D Rai , E. Mark Company Sandiago (U.S.A)
21. Dr. Md. Serajul Faizi , Assistant Professor Deptt. of Chemistry L.S College Muzaffarpur.
22. Dr. Krishna Murari Singh, Professors & Head Univ. Deptt. of Chemistry V.K.S.U Araha.
23. Dr. Amjad Ali ,Assistant, Professor R.S.S Mahila College Sitamarhi.
24. Dr. Brij Bihari Sharma, Associate Professor of Chemistry MU Bodh-Gaya.

25. Dr. Arvind Kumar, Associate Professor Deptt. of Chemistry L.S College
Muzaffarpur.

26. Dr. Prem Ranjan, Assistant Professor , Deptt. of Chemistry Science College Patna.

11. email id: of Head of the Department : chemtrackmk@gmail.com

Mobile No. : 9934274517