Curriculum Vitae

1.	Name	:	**Prof. R.N. Patel**
2.	Designation	:	**Professor & Dean**
3.	Date of Birth		**30th July, 1964**
4.	Department(s) affiliation and full address	:	**Prof. R.N. Patel** **Department of Chemistry** **A.P.S. University, Rewa (M.P.)**
5.	Academic Qualifications	:	**M.Sc., Ph.D. & D. Sc.**
6.	Teaching experience	:	**Twenty seven years P. G. teaching experience.**

7. Membership of the academic societies:

- Life member of Indian Chemical Society

  [Fellowship No./F/2447/(LM)]

- Life member of Indian Science congress

  Association, [Fellowship No. F/2812(LM)]

- Life member of Instrument Society of Indian

  [Fellowship No. F/584/(LM)]

- Life member of Chemical Research Society of India
  [Fellowship No. F/823/(LM)]

- Life member of Indian Council of Chemists
  [Fellowship No. F/1432/(LM)]

- Member of National Academy of Sciences India
  (since 2012)

8. **Details of the project/scheme completed or ongoing.**

S. No.	Title of the project including Sanction No.	Total amount of Grant	Total period of support with data
1.	X-band electron paramagnetic resonance and dropping mercury electrode behaviour of some copper-proteins and model compounds **(MPCST C-57/90)**	Rs. 1,24,800.00	Three years, completed on 31-3-98
2.	Synthesis of some dinuclear copper(II) systems as models for type-III copper **(CSIR, 1525/98/EMR-II)**	Rs. ~6,00,000.00	Three years, completed on 31-3-2000
3.	Superoxide dismutase activity of homo- and heterometallic complexes as possible models for superoxide dismutase **(UGC, F-12-72/2001 (SR- I)**	Rs. 1,96,560.00	Three years, completed on 3-6-2004
4.	Structural and functional studies on synthetic models for binuclear metal proteins **(CSIR, 01/1832/03/EMR-II)**	Rs. 7,73,999.00	Three years, completed on 31-3-2006
5.	Synthesis, characterization and properties of class I dinuclear mixed valance Cu(II)/Cu(I) complexes: An intervalance electron transfer study **(UGC, F.30-76/2004(SR)**	Rs. 5,19,100.00	Three years, completed on 31-12-2007
6.	Syntheses, structural, electrochemical behaviour and bio-mimetic activity of some new transition metal complexes possessing O, N and S donor sites **(CSIR, 01(2094)/07/EMR-II)**	Rs.10,76,000.00	Three years, The project completed on 31-3-2010
7.	Synthesis, structure, spectroscopic, magnetic and electrochemical studies of copper-copper and copper-zinc imidazolate bridged complexes **(U.G.C. Scheme No. 36-28/2008(SR)**	Rs. 6,69,300.00	Three years, The project completed on March 2012
8.	Synthesis, structure and studies of enzymatic nuclease: mimics by copper(II) mixed ligand complexes with biologically important ligands: Possible models for the chemistry of chemicalnuclease **(DRDO Project No. ERIP/ER/0603574/M/01/1118)**	Rs.14,84000.00	Two years, The project completed on May 2011
9.	Design, synthesis and bioactivity studies of copper(II) complexes: A plausible model for metalloproteins **(MPCST-5986/CST/R&D/2012)**	Rs.8,83000.00	Two years, The project completed on 31/03/2014
10.	Synthesis, X-ray and spectral studies of low molecular weight copper(II) synthetic models mimicking the bioactivity **(CSIR-01(2451)/11/EMR-II)**	Rs.20,26,000.00	Three years. The project completed on 31/07/2014.
11.	Synthesis Characterization and insulin mimetic activity of oxovanadium(IV) complexes: An approach to DFT calculations and new insights into the chemistry of oxovanadium(IV) complexes **(MPCST- A/RD/RP-2/2015-16/245)**	Rs. 4,48,000/-	Two Year. The project completed on 31/04/2017
12.	Structural diversity and supramolecular architectures of copper(II) complexes based on flexible Schiff bases with polyatomic moieties as co-ligands **(CSIR-01(2917)/18/EMR-II)**	Rs. 21,11,999/-	Three years and four months, completed on 31/07/2021

9. **Publications : 155 Research Papers published and 4 Communicated**

10. **Thesis Supervised : Ph.D. 15 (Awarded)**
: M.Phil. 32 (Awarded)

11. **Academic achievements and other (administrative) activities:**

1. Head Department of Chemistry (May 2009 to Dec. 2014 and Feb. 2018 to Feb. 2020).
2. Chairman of the board of studies in Chemistry (July 2009 to Dec. 2014) A.P.S. University, Rewa.
3. Acted as Asst. Supdt. and Supdt. for University Examination for many years.
4. Served as associate editor (for two years) "Journal of Indian Chemical Society".
5. Presented research papers in many International and National Symposia and Seminars
6. Incharge of the University Science Instrumentation Centre (USIC).
7. Prof.-in-charge of B.Sc. in (Chemistry & Biochemistry) and M. Sc. Biochemistry.
8. Served as Director of Pre. Examination Coaching Centre for SC/ST/Minorities.
9. Convener of a National Seminar on "Recent Trends in Chemical Sciences" 12&13May 2010.
10. Member of Board of studies in chemistry (BU, Bhopal).
11. Organized two days Calibration of "International Year of Chemistry-2011" March 23 & 24, 2011.
12. Convener, National Seminar on "Expanding Horizons in Chemical Sciences" Oct 22 &23, 2011.
13. Program Co-ordinator, INSPIRE Internship Camp (DST)-2017 (27 Nov.-1 Dec. 2017).
14. Program Co-ordinator, INSPIRE Internship Camp (DST)-2019 (15 -19 Jan. 2019).

12. **References:**

1. Prof. K.B.Pandeya
Ex. V.C. & Ex. U.P. P.S.C. Chairman
191 MIG-1 Awantika ADA, Nany (Allahabad)

2. Prof. Rajeev Gupta
Department of Chemistry
Delhi University, Delhi.

3. Prof. H.B. Singh
   Department of Chemistry
   I.I.T. Bombay, Mumbai.

4. Prof. J. Niclos-Gutierrez
   Departamento de Quimica Inorganica
   Facultad de Framacia Universidad de Granada, Spain.

5. Prof. R. J. Butcher
   Department of Inorganic & Structural Chemistry, Howard University
   Washington DC, 22031 USA.

13. **Awards and recognition:**

1. *Rev. Fr. L. M. Yaeddanapally Memorial Award, 2007 Council of the Ind. Chem. Soc.*

2. *Best Paper Award (A.P.S. Univ.- M.P.C.S.T. 2007-08).*

3. *Best Paper award (A.P.S. Univ.-M.P.C.S.T.2008-09).*

4. *Name included in **World's top 2%** scientists by Stanford University (USA) 2020.*

14. **Foreign Visit:**

1. Attended First Assian Conference on Bioinorganic Chemistry at **Okajaki**, 2003 **Japan.**

2. Attended XXI International Conference on Coordination and Bioinorganic Chemistry, Smolenice, 3-8 June, 2007 at **Slovakia.**

3. Attended Global Challenge's- The Role of Chemistry in Giving Their Solutions International Conference organized by Indian Council of Chemists at **Bangkok** dated 11-15 June, 2011.

4. Attended 2nd International Conference on Trends in Chemical Sciences going Beyond Frontiers 10-12 June 2012 at **Malaysia**.

5. Attended 3rd International Conference on Chemistry for Sustainable Development: Indian Perspective organized by Indian Council of Chemists at **Dubai Abu Dhabi** dated 11th -13th June, 2014.

6. Attended 3rd World Conference on Applied Sciences, Engineering and Technology [WCSET 2014] 27-29 September 2014, **Kathmandu, Nepal.**

7. Attended 4th International Conference on Applications and management in Chemical Sciences, 13th to 15th June 2015, **Tashkent, Uzbekistan.**

8. Attended 5th International Conference on Current Concepts in Chemistry, 7th to 9th June 2017, **Bali, Indonesia.**
9. Attended 6th International Conference of Indian Council of Chemists, 6th to 8th June 2019, **Paris, Brussels.**

15. List of Scholars Awarded Ph.D.

[Under the supervision of **Prof. R. N. Patel**]

1. Dr. Nipendra Singh (2001)
2. Dr. K. K. Shukla (2002)
3. Dr. Ravi Prakash Shriwashtava (2002)
4. Dr. V. K. Soni (2002)
5. Dr. Saroj Sharma (2002)
6. Dr. V. L. N. Gundla (2007)
7. Dr. Mukesh Caoudhary (2009)
8. Dr. Anurag Singh (2010)
9. Dr. Sampat Prasad Rawat (2010)
10. Dr. Vishnu Prasad Sodhiya (2012)
11. Dr. Dinesh Kumar Patel (2012)
12. Dr. Yogendra Singh (2016)
13. Dr. Yogendra Pratap Singh (2017)
14. Dr. Satish Kumar Patel (2022)
15. Dr. Dinesh Kumhar (2022)

INTERNATIONAL CONFERENCE PAPERS

1. Thermodynamic parameters for ternary complex formation of some bivalent metal ions with aminoacids and some imidazoles, 95 (1997) IUPAC International Conference on Chemical and Biological Thermodynamics, GNDU Univ., Amritsar, (Jan. 5-8, 1997). R.N. Patel and K.B. Pandeya.

2. Model studies on copper-zinc superoxide dismutase, Coordination Chemistry at the turn of the Century, **4**, 321-326 (1999). Edited by G. Ondrejovic and A. Sirota, Slovak Technical University Press, Bratislawa, 1999, K.B. Pandeya* and R.N. Patel.

3. Superoxide dismutase activity of homo- and heterometallic complexes as possible models for superoxide dismutase, **A9**, Ing. P-15, Proceedings of the International conferences on Chemistry and Thirty sixth annual convention of chemists. 1999. R.N. Patel and K.B. Pandeya.

4. X-band electron paramagnetic resonance spectra of pig serum albumin-copper(II) and pig serum albumin-copper(II)-aminoacid systems. **A9**, Ing. P-17. Proceedings of the

International conferences on chemistry and Thirty sixth annual convention of chemists, 1999. R.N. Patel and K.B. Pandeya.

5. Magnetic, EPR and SOD studies of some CuII-CuII, CuII-NiII and CuII-ZnII Imidazolate Bridged Complexes P-30, Page – 95. The First Asian Meeting of Bioinorganic Chemistry (ASBIC) Okazaki, JAPAN, (March 7-10) 2003. R.N. Patel

6. The Chemistry of Synthetic models for copper(II) complexes and their biochemical relevance, Plenary Lecture, Page 76. XXI International Conference on Coordination and Bioinorganic Chemistry, Smolenice, 3-8 June, 2007 Slovakia. R.N. Patel.

7. Biological coordination chemistry of copper(II) complexes: Bioinorganic and inorganic perspective, Invited Lecture Page 56. International Conference (Indian Council of Chemists) Global Challenge's- The Role of Chemistry in Giving Their Solutions. Bangkok (Thailand), 11- 15 June 2011, R.N. Patel

8. Unusual end-on bis (μ-acetato/μ-nitrato) bridged copper(II) complexes: Synthesis, structure,bioactivities and DFT calculations, 2nd International Conference (Indian Council of Chemists) page 5, 10-12 Junes 2012, Kuala Lumpur (Malasiya), R.N. Patel

9. Synthesis, Structure and elctrochemical properties of some unusual end-on bis(μ-acetato/μ- nitrato) bridged copper(II) complexes, 11th ISEAC – DM – 2014 (Fuel Chemistry Division, BARC, Mumbai) 20 – 25 February 2014, Amritsar Punjab (India), R.N. Patel

10. Synthesis, structure and biochemical properties of some bridged copper(II) complexes 3rd International Conference (Indian Council of Chemists) Dubai Abu Dhabi dated 11th - 13th June, 2014. R.N. Patel

11. Some unusual end-on bis(μ-acetato/μ-nitrato) bridged copper(II) complexes: Synthesis, structures and magnetic properties [WCSET 2014], 27-29 September 2014, Kathmandu, NEPAL. R.N. Patel

12. Electron paramagnetic resonance as a tool to investigate the transition metal complexes 4th International Conference (Indian Council of Chemists) ICAMCS – 2015, 13th to 15th June 2015, Tashkent, Uzbekistan. R.N. Patel

13. Structural variety and unusual zero-field splitting n the X-band electron paramagnetic spectra: Synthesis, molecular structures, DFT studies and antioxidant enzymatic activity of copper(II)complexes with N'-[(E)-phenyl(pyridine-2-yl)methylidene]benzohydrazide 5th International Conference on Current Concepts in Chemistry, 7th-9th June 2017, Bali, Indonesia. R.N. Patel

14. Copper(II) complexes as possible models for antioxidant superoxide dismutase 6th International Conference of Indian Council of Chemists, 6th to 8th June 2019, Paris, Brussels. R.N. Patel