

## CURRICULUM VITAE



DHIRENDRA KUMAR SHARMA

M.Sc., Ph.D. (Chemistry)

Assistant Professor, Department of Chemistry, Institute of Basic Science, Bundelkhand University, Jhansi, (U.P.) India.

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### **EDUCATIONAL QUALIFICATION:**

Ph.D. Chemistry (Area of specialization: Thermodynamic and Physico-Chemical Studies of Intermolecular and Ion-Solvent Interactions in Liquid Mixtures and in Mixtures, Chemical thermodynamics and Chemical Ultrasonics.)

M.Sc. Chemistry with specialization in Physical chemistry 1996-1998: Bipin Bihari (P.G.) College, Jhansi U.P., India.

B.Sc. Chemistry Zoology and Botany, 1993-1996: Bipin Bihari (P.G.) College, Jhansi UP, India.

### **Teaching/ Research/ Professional experience:**

S. No.	Name of the post	From	To	Institute/Organization
1	Assistant Professor	24/01/2005	Till	Department of Chemistry, Bundelkhand University, Jhansi, UP
2	Teaching Assistant	20/11/2001	23/01/2005	Department of Chemistry, Bundelkhand University, Jhansi, UP

Presently, being an Assistant Professor (Chemistry), I am engaged in teaching to Chemistry students in B.Sc. and M.Sc., besides the guiding Ph.D. research scholars and for entrepreneurship and startup.

### **Association in sponsored/externally funded Projects:**

I served as Principal Investigator in one external funded Project:

**Project No. 1.** Principal-Investigator "Study of intermolecular interaction in some associated and non-associated liquid mixtures" given by U.G.C., New Delhi, India (Rs. 1, 00,000/-) w.e.f. from 01/04/2008 to 31/03/2010.

### **Publication: Citation Index (Google Scholar: Citations: 136, h-index: 6, i-index: 5)**

1. "Studying of Acoustical Parameters of Some Binary Liquid Mixture at 303.15 K and 3 M. Hz" Dharendra Kumar Sharma, Ravi Kant Mishra and Chander Pal Prajapati, *European Journal of Theoretical and Applied Sciences*, Vol.1 (No. 5), 1155-1178, 2023. [ISSN: 2786-7447] DOI: 10.59324/ejtas.2023.1(5).101
2. "Ultrasonic studies and Excess properties of Binary liquid mixtures of ethyl acetate with 1-Alkanols at 303.15K and 3 M.Hz. Dharendra Kumar Sharma, Chander Pal Prajapati, Suneel Kumar, *J. Pure Appl. Ultrason.* 45, pp. 32-40, (2023) [ISSN No. 0256-4637]

3. "Viscosities and excess thermodynamic properties of binary liquid mixtures of cyclic ether with 1-alkanols at 303.15K." Dharendra Kumar Sharma, Seema Agarwal & Suneel Kumar, **Journal of Chemistry and Biochemistry**, Vol. 10, No. 1, pp. 1-13, June 2023. ISSN 2374-2712 (Print) 2374-2720 (Online) DOI: 10.15640/jcb.v10n1a1, URL: <https://doi.org/10.15640/jcb.v10n1a1>
4. "Refractometric and Viscometric study of binary liquid mixture of O-Cresol with Primary alcohols at 298.15K" Dharendra Kumar Sharma & Ravi Kant Mishra, *Research Spectrum: A Multi Faculty Research Journal*, Vol.6 (1-2) Page no.128-129, 2003. ISSN No. 2395-1966.
5. "EVALUATION OF THERMO DYNAMICAL ACOUSTIC PARAMETERS OF BINARY MIXTURE OF CYCLIC ETHER WITH 1-ALKANOLS AT 303.15 K AND AT 3 M HZ. FREQUENCIES" Dharendra Kumar Sharma & Chander Pal Prajapati **INTERNATIONAL JOURNAL OF CURRENT ADVANCED RESEARCH**, Volume 12; Issue 01 (A); January 2023; Page No. 1783-1791. ISSN: O: 2319-6475, ISSN: P: 2319-6505, DOI: <http://dx.doi.org/10.24327/ijcar.2023.1791.0397>
6. "Study of thermodynamic and transport properties of binary liquid mixtures of cyclic ether with 1-alkanols at 303.15K and at 3 M.Hz." Dharendra Kumar Sharma, Chander Pal Prajapati, Suneel Kumar, *Journal of Xidian University*, VOLUME 17, ISSUE 3, 2023, pp. 373-388. ISSN No:1001-2400 <https://doi.org/10.37896/jxu17.3/038>
7. "Density, Refractive Index and Excess Molar Volume of Binary Liquid Mixtures at 303.15 K". Dharendra Kumar Sharma, Chander Pal Prajapati, Suneel Kumar, *International Journal of Chemistry and Applications.*, Volume 15, Number 1 (2023), pp. 1-12. [ISSN 0974-3111]
8. "Density and Speed of Sound for the binary mixture (Ethyl acetate + 1-Alkanols) at 303.15K." *Compliance Engineering Journal*, Dharendra Kumar Sharma and Suneel Kumar, Volume 14, Issue 1, 2023, pp 19-26. [0898-3577]. DOI:16.10089.CEJ.2022.V13I10.285311 405 <https://ijceng.com/index.php/volume-14-issue-1-2023/>
9. "THERMODYNAMIC, EXCESS AND OPTICAL STUDIES ON THE INTERMOLECULAR INTERACTIONS OF BINARY LIQUID MIXTURES OF 1, 4-DIOXANE WITH 1-ALKANOLS AT 303.15K" **European Journal of Biomedical and Pharmaceutical sciences**, Dharendra Kumar Sharma and Suneel Kumar, Volume 10, Issue 2, 2023, pp. 332-337 [ISSN 2349-8870]
10. "Excess molar volume and isentropic compressibility for the binary mixture (Ethyl acetate + 1-Alkanols) at 303.15K". Dharendra Kumar Sharma, Chander Pal Prajapati, **International Journal of Innovative Research in Sciences and Engineering Studies (IJIRSES)** Volume: 3 Issue: 1 | 2023, pp.10-15.[ISSN: 2583-1658]
11. "Acoustical Studies on Binary Liquid Mixtures of Some Benzene Sulphonyl Chloride with Hydrocarbons at 303.15 K" Dharendra Kumar Sharma, Suneel Kumar, Chander Pal Prajapati, *International Journal of Chemistry and Applications.*, Volume 14, Number 1 (2022), pp. 9-26. [ISSN 0974-3111]
12. "An Intermolecular interaction in binary liquid mixture of Ethyl Aceto Acetate with o, m, p - Xylene: An Volumetric and Viscometric study" Dharendra Kumar Sharma, Suneel Kumar, Chander Pal Prajapati, **Research and Analysis Journal**, Vol. 5 No. 12 (2022) | Page No.: 08-14 [ISSN NO.2589-9228]2589-921X. <https://doi.org/10.18535/raj.v5i12.372>
13. "Intermolecular Free Length and Molar Volume of Binary Liquid Mixtures of Ethyl Acetate with 1-Alkanol At 303.15K" Dharendra Kumar Sharma<sup>1\*</sup>, Seema Agarwal and Akil Khan, *Der Pharma Chemica*, Vol. 14(10), 2022, 1-9. [ISSN NO. 0975-413X] (International Journal) **Published:** 19-Oct-2022, DOI: 10.4172/0975-413X.14.10.1-9
14. "Acoustical and excess thermodynamical studies on cyclic ether (1,4-Dioxane) with 1-alkanols at 303.15K" Dharendra Kumar Sharma, Suneel Kumar, Chander Pal Prajapati, *International Journal of Chemistry Studies*. Volume 6, Issue 2, 2022, Page No. 47-57 [ISSN: 2581-348X]
15. "Density and Ultrasonic Study of Benzene Sulphonyl Chloride with Hydrocarbon at 303.15 K." Suneel Kumar, Chandra Pal, Dharendra Kumar Sharma, *International Journal of Current Science Research and Review*, Volume 05 Issue 07, Page No.: 2496-2504, 19 July 2022. [ISSN: 2581-8341] DOI: 10.47191/ijcsrr/V5-i7-34, Impact Factor: 5.995, | [Google Scholar](#) |

16. "Ultrasonic study of molecular interaction in binary liquid mixtures of Ethyl acetate with alcohols at 303.15 K" Dhirendra Kumar Sharma<sup>1</sup>\*, Seema Agarwal<sup>2</sup> and Ekta Pandey<sup>3</sup>, *J. Pure Appl. Ultrason.* 44, pp. 28-36, (2022) [ISSN No. 0256-4637] <http://www.i-scholar.in/index.php/Ultrasonics>
17. "Free Volume and Internal Pressure of Binary Liquid Mixtures from Ultrasonic Velocity at 303.15 K". Dhirendra Kumar Sharma and Seema Agarwal, *International Journal Of Thermodynamics*, Volume 25 , Issue 2, pp.016-022, 2022. [ISSN 1301-9724 / e-ISSN 2146-1511], doi: 10.5541/ijot.PID, <https://dergipark.org.tr/en/pub/ijot>
18. "Studying Different Thermodynamic properties of binary liquid mixture of ethyl acetate with 1-alkanols at 303.15K". Dhirendra Kumar Sharma and Seema Agarwal, *Current Catalysis*, Volume 11, Issue 2, 2022, pp 115-126. [ISSN No. 2211-5447] (**International Journal**) DOI: **10.2174/2211544711666220517-102216**. <https://benthamscience.com/journals/current-catalysis/>
19. "EXCESS THERMODYNAMIC PROPERTIES OF ETHYL ACETATE WITH PRIMARY ALCOHOLS AT 303.15 K" Dhirendra Kumar Sharma and Seema Agarwal, *Chemical & Pharmaceutical Research*, Volume 4 , Issue 1 / 1 of 5, Jan. 2022.[ISSN NO.2689-1050] (**International Journal**) <https://www.scivisionpub.com/abstract-display.php?id=2040>
20. "Excess thermodynamic properties of some binary liquid mixtures of 1,4-Dioxane with 1-alkanols (C<sub>3</sub>, C<sub>4</sub>, C<sub>6</sub>& C<sub>8</sub> ) at 303.15K" Dhirendra Kumar Sharma and Seema Agarwal, *Journal of Advanced Scientific Research (Sciensage)*, Vol.12(4), 2021, 316-320. [ISSN NO. 0976-9595]. <http://www.sciensage.info/jasr>
21. "Thermophysical properties of Ethyl acetate with 1-Alkanol binary mixtures at 303.15 K". Dhirendra Kumar Sharma and Seema Agarwal, *Der Pharma Chemica*, Vol. 13(11), 2021, 83-88. [ISSN NO. 0975-413X] (**International Journal**) h-index 41 <http://www.derpharmachemica.com/archive.html>
22. "Ultrasonic velocities and refractive indices of binary liquid mixtures of 1, 4-dioxane with 1 –alkanols (C<sub>3</sub>, C<sub>4</sub>, C<sub>6</sub> , C<sub>8</sub> ) at 303.15 K". Dhirendra Kumar Sharma and Seema Agarwal, *International Journal of Advanced Chemistry*, Vol. 9(2), 2021, 201-204.[ISSN NO. 2310-2977] (**International Journal**)<http://www.sciencepubco.com/index.php/IJET>
23. "Study of Intermolecular Interactions in Binary Liquid Mixtures of Cyclic Ether with Alkanols through Ultrasonic Speed Measurements". Dhirendra Kumar Sharma and Seema Agarwal, *Journal of Emerging Technologies and Innovative Research, (International Open Access Journal)* Volume 8, Issue 12, Page9365-372, December 2021. [ISSN-2349-5162] <http://www.jetir.org/>
24. "Estimation of Thermodynamic Properties of Some Binary Liquid Mixtures of 1, 4-dioxane with 1 – Alkanols (C<sub>3</sub>, C<sub>4</sub>, C<sub>6</sub>, C<sub>8</sub> ) at 303.15 K", Dhirendra Kumar Sharma and Seema Agarwal, *GIS SCIENCE JOURNAL*, Vol. 8, Issue 7 ,pp 1034-1040. July 2021.[ISSN NO: 1869-9391]DOI: 20.18001.GSJ.2021.V8I7.21.37634
25. "Ultrasonic, Volumetric and Isentropic Compressibility of Binary Mixtures of 1,4-Dioxane with Primary Alcohols at 303.15 K", Dhirendra Kumar Sharma and Seema Agarwal, *Open Journal of Physical Chemistry*, Vol. 11, 168-181, August, 2021.[ISSN-2162-1977] (**International Journal**) <https://doi.org/10.4236/ojpc.2021.113010>
26. Synthesis of Ag NPs Embedded Double Network Nanocomposite Hydrogels having High Swelling and Anti-Bacterial Characteristics, Akansha Dixit, Dibyendu S. Bag, Kavita Agarwal, Dhirendra K. Sharma and N. Eswara Prasad, *Advanced Materials Letters*, Vol. 10, 2019. (**International Journal**).[ ISSN No. 0976-3961]
27. Synthesis of Multifunctional High Strength, Highly Swellable, Stretchable and Self-healable pH-responsive Ionic Double Network Hydrogels by Akansha Dixit, Dibyendu S. Bag, Dhirendra K. Sharma and N. Eswara Prasad. *Polymer International*, 2019; Vol. 68: 503–515..[ISSN No. 1097-0126]
28. Effect of Crosslinking on the Network Parameters, Swelling, Mechanical and Thermal Properties of PVA-Borax and Poly (AM-co-HEMA) Double Network (DN) Hydrogels by Akansha Dixit, Dibyendu S. Bag, Harjeet Singh, Dhirendra Kumar and N. Eswara Prasad, *Journal of Polymer Material*, Vol. 35, No. 3, July - September 2018.[ISSN No. 0973-8622]

29. IDENTIFICATION AND ESTIMATION OF RUTOSIDE TRYHYDRATE (RUTIN) IN HYDROALCOHOLIC EXTRACT OF TEPHROSIA PURPUREA; A SPECTROPHOTOMETRIC APPROACH "Eduved international Journal of Interdisciplinary Research, VOL 3, 3 MAY 2016, PAGE 41 – 43
30. "Ultrasonic study of binary liquid mixtures of Triethyl amine with primary alcohols at 303.15K" in International Journal of Chemical synthesis & Chemical Reactions, Volume 2 Issue 1(2016).
31. "Refractometric study of binary liquid mixtures Triethyl amine with alcohols at 303.15K" in International Journal of Engineering Research and Management, volume 3 Issue 03(2016) 1-2.
32. "Volumetric study in some binary liquid mixtures Triethyl amine with primary alcohols at 303.15K" in International Journal of Engineering Research and Management, volume 3 Issue 02(2016) 62-64.
33. "Refractometric studies on molecular interaction in six binary liquid mixtures" in Open Journal of Physical Chemistry Vol.4 (2014) 1-5.[ISSN-2162-1977]
34. "Molecular interaction in binary liquid mixtures at 303.15K" in proceeding of Advanced Ultrasonics 25-26 March 2011.
35. "Surface tension studies for some binary liquid mixtures at 303.15K" in Proceedings of New Dimensions of Physics (NCU-2011), 25-26 March 2011.
36. "Free volume and internal pressure of binary liquid mixture at different temperature" in Proceedings of New Dimensions of Physics (NCU-2011), 25-26 March 2011.
37. "Density, Viscosity and Viscosity deviation of binary liquid mixtures of 2-Butanol with non-polar solvent at 303.15K" in Asian Journal of Chemistry, Vol. 22 (2010). [ISSN-0970-7077]
38. "Theoretical Evaluation of viscosity in six binary liquid mixtures" in Al-Flash's Journal Science & Technology, Vol.1, No.4, (2009).
39. "Viscosity of multi component liquid systems prediction from ternary data using statistical method" in Al-Flash's Journal Science & Technology, Vol.1, No.3, (2009).
40. "Evaluation of excess internal pressure of some binary liquid mixtures of Diglyme with Nonane, Decane and Dodecane at different temperatures" in Al-Flash's Journal Science & Technology, Vol.2, No.4, (2009)23-29.
41. "Free volume and intermolecular interaction in binary liquid mixtures of 2-Nitro Toluene with p-Xylene at 298.15K,303.15K and 315.15K" in Proceeding of XVII National Symposium on Ultrasonic,315(2008). [ISBN-10:0230-63689]
42. "Antioxidant activity of the successive extract of Grewia Asiatic Leaves" in Asian Journal of Chemistry, Vol. 19 No.5 (2007), 3417-3420. [ISSN-0970-7077]
43. "Excess free volume and intermolecular interaction in binary and ternary liquid mixtures" in Journal of Pure and Applied Ultrasonic, Vol.28, No.2-4 (2006).
44. "Excess intermolecular free length and molecular interaction for binary liquid mixtures" in Asian Journal of Chemistry, Vol. 18 No.4 (2006), 2756-2760. [ISSN-0970-7077]
45. "Excess free volume and intermolecular interaction in binary liquid mixtures of O-Xylene with 1-Alkanol" in Asian Journal of Chemistry, Vol. 18 No. 2 (2006), 1335-1339. [ISSN-0970-7077]

### **Research Papers Presented/Accepted in Seminars/Conferences:**

1. 40<sup>th</sup> Annual Convention of Chemist 23-27<sup>th</sup>December 2003 at Department of Chemistry, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
2. 19<sup>th</sup> National Symposium on Ultrasonic 21-23<sup>rd</sup> December 2004 at Department of Physics, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
3. 19<sup>th</sup> National symposium on plasma science & technology 7-10 December 2004 at Department of Physics, Institute Of Basic Science, Bundelkhand University, Jhansi (U.P.)
4. 2<sup>nd</sup> International Conference on Recent Advances in Biomedical & Therapeutic Sciences 06-08<sup>th</sup> January 2005 at Department of Biomedical Science, Bundelkhand University, Jhansi (U.P.)
5. Workshop on Recent Advances in Polymer & its Application 01-02<sup>nd</sup> December 2006 at Bundelkhand Institute of Engineering and Technology, Jhansi (U.P.).
6. 43<sup>rd</sup> Annual Convention of Chemist 23-27<sup>th</sup>December 2006 at Department of Chemistry, Baba Sahab Bhim Rao Ambedkar University, Aurangabad (Maharashtra).

7. 9<sup>th</sup> Annual Conference of International Academy of Physical Science, 03-05 February 2007 at Dr. Bhim Rao Ambedkar University, Agra (U.P.)
8. 44<sup>th</sup> Annual Convention of Chemist 23-27<sup>th</sup> December 2007 at Department of Chemistry, Mahatma Gandhi Institute of Applied Sciences, Jaipur (Rajasthan).
9. Workshop on “Water Pollution Protection and under ground level: Scientific and Technical View” 12-13<sup>th</sup> January 2008 at Bipin Behari (P.G.) College Jhansi (U.P.)
10. Workshop on “Origin of Era of Nano Technology” 14-15<sup>th</sup> March 2008 at Department of Physics, Institute Of Basic Science, Bundelkhand University, Jhansi (U.P.)
11. National Seminar on “Nanotechnology and its Application-2008” 30<sup>th</sup> March 2008 at School of Studies in Electronics, Jiwaji University, Gwalior (M.P.)
12. Workshop on “Lead-er: Lead Educator capacity building in organizing Lead awareness” on 05/11/2008 at Institute of Environment and Development Studies, Bundelkhand University, Jhansi (U.P.)
13. 17<sup>th</sup> National Symposium on Ultrasonic 04-06<sup>th</sup> December 2008 at Department of Physics, Banaras Hindu University, Varanasi (U.P.)
14. National conference on electron microscopy and allied fields & XXX annual meeting on EMSI-2009 in Department of Physics, Institute Of Basic Science, Bundelkhand University, Jhansi (U.P.)
15. National Conference on Thermodynamics of living and non-living systems 17-18<sup>th</sup> December 2009 at Department of Chemistry, D.D.U. University, Gorakhpur (U.P.)
16. National Conference on Emerging Trends in Chemical Sciences on 24-26 February 2010 Department of Chemistry, Institute Of Basic Science, Bundelkhand University, Jhansi (U.P.)
17. National symposium on Geology and Mineral Resources of Bundelkhand Craton, 15<sup>th</sup> Annual Congress of south Asian Association of Economic Geologists on 08-10 October 2010 at Department of Geology, Institute of Earth Science, Bundelkhand University, Jhansi (U.P.)
18. Active participation in science camp under Inspire Internship program (DST New Delhi) in 13-18 December 2010 at Bundelkhand University, Jhansi.
19. National Conference on Ultrasonics (NCU-2011) 25-26<sup>th</sup> march 2011 at Department of Physics, Institute Of Basic Science, Bundelkhand University, Jhansi (U.P.)
20. National symposium on Acoustics (NSA-2011) 17-19 November 2011 at Department of Physics, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
21. National Seminar on Research Methodology in Chemistry, 03-04<sup>th</sup> February 2012, Department of Chemistry, Janta College, Bakewar, Ethawah (U.P.)
23. Active participation in science camp under Inspire Internship program (DST New Delhi) in 05 – 09 July 2013 at Bundelkhand University, Jhansi.
23. National symposium on Jeonical Jerminology in Science on 22-23 November 2016 at Department of Geology, Institute of Earth Science, Bundelkhand University, Jhansi (U.P.)
24. International Conference “Science, Engineering and Technology” on 30<sup>th</sup> -1<sup>st</sup> June, 2019, at Hotel La Grant Inn, **Tashkent, Uzbekistan.**
25. National seminar on “Science with Lens of Scientific & Technical Technology” on 29-30, January 2020 at Shyam Lal College, University of Delhi, India.
26. Awareness programme on “COVID-19” on 01/05/2020, organized by Department Of applied Science and Humanities, Rajkiya Engineering College, Ambedkar Nagar (U.P.)
27. National Workshop on Ultrasonics - 2021” organised by the Department of Physics, School of Science and Humanities, Sathyabama Institute of Science and Technology, Chennai in Association with Ultrasonic Society of India, New Delhi, from 19 - 24 July, 2021.

28. 2<sup>nd</sup> International Conference on “Recent Advances in Material and Chemical Sciences”(ICRAMCS 2022) held on 03-06<sup>th</sup> November 2022 at Department of Chemistry, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)  
**“Acoustical parameters of binary liquid mixtures of Ethyl acetate and 1-alkanols at 303.15K”**
29. Two-day National Seminar on Innovative I.C.T. Pedagogies 25<sup>th</sup>-26<sup>th</sup> November 2022 at Institute of Education & Institutions Innovation Council, Bundelkhand University, Jhansi (U.P.).  
**“Role of ICT in experimental and theoretical properties of binary liquid mixtures”**
30. National Seminar on Recent Advances in Chemical Sciences (RACS-2023) organized by Department of Chemistry, Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.) From March 16-17, 2023.  
**“Physico-Chemical parameters, Phytochemical Screening and Antioxidant Activity of seeds of Siamese Cassia Seed’s oil collected from central india.”**
31. National Seminar on Recent Advances in Chemical Sciences (RACS-2023) organized by Department of Chemistry, Dr. Hari Singh Gour Vishwavidyalaya, Sagar (M.P.) From March 16-17, 2023.  
**“Study of excess thermodynamic properties of some binary liquid mixtures from Ultrasonic Velocity at 303.15 K.”**
- 32 International Conference on Ultrasonics and materials Science for Advanced Technology (ICEMSAT-2023) organized by Bundelkhand University, Jhansi (U.P.). from November 25-27,2023.  
**“A Discussion of Acoustical Parameters in Binary Liquid Mixtures at 303.15 K: - An Ultrasonic Study”**

### **Organized as Member of National/International Conference:**

1. Member of Organizing Committee 40<sup>th</sup> Annual Convention of Chemist 23-27<sup>th</sup> December 2003 at Department of Chemistry, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
2. Member of Organizing Committee 19<sup>th</sup> National Symposium on Ultrasonic 21-23<sup>rd</sup> December 2004 at Department of Physics, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
3. Member of Organizing Committee 2<sup>nd</sup> International Conference on Recent Advances in Biomedical & Therapeutic Sciences 06-08<sup>th</sup> January 2005 at Department of Biomedical Science, Bundelkhand University, Jhansi (U.P.)
4. Member of Organizing Committee National Conference on Electron Microscopy and Allied Fields (EMSINC-2009) held on 17-19<sup>th</sup> January 2009 at Department of Physics, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
5. Joint Secretaries of National Conference on Emerging Trends in Chemical Sciences held on 24-26<sup>th</sup> February 2010 at Department of Chemistry, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
6. Member of Organizing Committee, National Symposium on Geology and Mineral Resources of Bundelkhand Craton (GMRB-2010) held on 08-10<sup>th</sup> October 2010 at Department of Geology, Bundelkhand University, Jhansi (U.P.)
7. Co-coordinator of Science Camp under DST INSPIRE Internship program (INSPIR-2010) held on 13-18<sup>th</sup> December 2010 at Bundelkhand University, Jhansi (U.P.)
8. Co-coordinator of Science Camp under DST INSPIRE Internship program (INSPIR-2013) held on 05-09<sup>th</sup> July 2013 at Bundelkhand University, Jhansi (U.P.)
9. Co Chairman of “An International Conference on Recent Advances in Material and Chemical Sciences” held on 2-5 March 2016 at Department of Chemistry, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)
10. Member of Conference Secretaries 2<sup>nd</sup> International Conference on “Recent Advances in Material and Chemical Sciences”(ICRAMCS 2022) held on 03-06<sup>th</sup> November 2022 at Department of Chemistry, Institute of Basic Science, Bundelkhand University, Jhansi (U.P.)

## Serve as Repertoire and Jury:

1. Dr Dharendra Kumar Sharma, served as Session Chair in International Conference on Ultrasonic's and materials Science for Advanced Technology (ICEMSAT-2023) organized by Bundelkhand University, Jhansi (U.P.) from November 25-27,2023.
2. Dr Dharendra Kumar Sharma served as subject expert for specifications of Equipments in Central Ayurveda Research Institute, Gwalior Road, Jhansi (U.P.) on dated 06/11/2023.
3. Dr Dharendra Kumar Sharma, served as Jury in Oral Presentation of Bundelkhand Student Centric Programme under SUFLAM-2022 organized by Rani Laxmi Bai Central Agricultural University Jhansi-284003, Uttar Pradesh India on 13 September 2022.
4. Dr Dharendra Kumar Sharma served as Jury in National Children's Science Congress, Utter Pradesh Organized by Government Inter College, Jhansi (U.P.) on 22/11/2022.
5. Dr Dharendra Kumar Sharma served as subject expert for SRF Chemistry posts recruitment in Central Ayurveda Research Institute, Gwalior Road, Jhansi (U.P.) on dated 01/11/2022.

## Reviewer: I am serving as reviewer in

(i) International journal of Thermodynamics (Dergi Park, Akamdik), Turkey. [Scopus Journal]

## Award/Recognition:

- (1) Academic Excellence Award, Bundelkhand University, Jhansi in 2019-20.
- (2) Certificate Of Appreciation (State) Bundelkhand University, Jhansi in 2021-22.

<https://www.bujhansi.ac.in/en/page/awards-distinctions>

## 21. Membership of Professional Societies

- (a) Lifetime membership of Indian Chemical Society, Kolkata, India.[F/6535 (LF)(2004)]
- (b) Member of Chemical Society, America.
- (c) Lifetime membership of Indian Ultrasonic Society, New Delhi, India.(LM-178)(2004).
- (d) Membership of Indian Council of Chemists, Agra, India.
- (e) Membership of Asian Journal of Experimental Chemistry.
- (f) Lifetime membership of Society for technologically Advanced Materials of India. (LM-146)(2019).

## BOOK PUBLISHED:

S. No.	Title of book	ISBN No./Publisher	Remark
1.	A Text Book of Chemical Dynamics & Coordination Chemistry	978-93-94511-15-6: (2022) Krishna Prakashan Media Pvt. Ltd. Meerut (U.P.) India.	This is a text book at Graduate (B.Sc. III Semester) NEP-2020
2.	रासायनिकगतिकीवउपसहसयोजीरसायनविज्ञान	978-93-94511-24-8: (2022) Krishna Prakashan Media Pvt. Ltd. Meerut (U.P.) India.	This is a text book at Graduate (B.Sc. III Semester) NEP-2020
3.	A Text Book of Thermodynamics	978-93-91576-33-2 (2023) Divya LakshmiPublishers & Distributors, Meerut (U.P.) India.	This is a text book at Graduate (B.Sc. IV Semester) & M.Sc. I Semester) NEP-2020

4.	कांटमयांत्रिकी एवं विश्लेषणात्मकतकनीक	978-81-959942-8-1 (2023) KrishnaPrakashan Media Pvt. Ltd. Meerut (U.P.) India.	This is a text book at Graduate (B.Sc. IV Semester) NEP-2020
5.	Quantum Mechanics & Analytical Techniques	978-81-959942-92-7 (2023) Krishna Prakashan Media Pvt. Ltd. Meerut (U.P.) India.	This is a text book at Graduate (B.Sc. IV Semester) NEP-2020

### Book Chapter

- (i) “Ultrasonic: Study of Liquid and Liquid Mixtures”, **Modern Trends in Chemical Science**, Vol. I, (2023) pp.21- 44. ISBN No. 978-93-93992-03-1, Book DOI: <https://doi.org/10.22271/hb.book>.

### Number of Ph.D. Guided: 06

S.No.	Name	Topic	Year
1	Mr.Anand Trivedi	“Study of molecular interaction in some liquid mixtures”	7/9/2009
2	Miss. Akansha Dixit	“Synthesis and characterization of functional double network (DN) smart hydrogels”	Feb.2020
3	Miss. Seema Agarwal	“Study of intermolecular interaction in binary liquid mixtures through ultrasonic speed measurements at 303.15K”	25 June2022
4.	Mr. Ravi Kant Mishra	Thermodynamic studies of molecular interaction in binary liquid mixtures of cyclic di ether with 1-alkanols through Ultrasonic measurements	In doing
5.	Mr. Suneel Kumar	Acoustical investigation and physico-chemical behaviour of binary liquid mixtures of 1,4-dioxane with some aromatic hydrocarbons by ultrasonic velocity measurements.	In doing
6.	Mr. Chandra Pal Prajapati	A comparative study of molecular interactions of binary liquid mixtures of cumene with some aromatic hydrocarbons by ultrasonic parameters.	In doing

### Number of M.Phil. / M.Sc. Thesis Guided:

Dr Dharendra Kumar Sharma served as supervisor for 25 students for M Phil thesis work

Dr Dharendra Kumar Sharma served as supervisor for 40 M. Sc. students for their M Sc thesis work

### Refresher / Orientation Course

1. 9<sup>th</sup> refresher course in Chemistry from November 17, 2007 to December 7, 2007 at Department of Chemistry, D.D.U. University, Gorakhpur (U.P.)
2. 37<sup>th</sup> Orientation program from 20/02/14 to 19/03/14 at ASC, Lakshmibai National Institute of Physical Education, Gwalior (M.P.)

### Faculty development program

1. Seven-day faculty development program from 01 to 07 September 2014, Bundelkhand University, Jhansi (U.P.)
2. Faculty Training Programme on “Advanced Scientific Research Equipment’s” 03-06 October 2018, Innovation Centre, Bundelkhand University, Jhansi (U.P.).

### Other Activity



1. Appointed as Observer for C.P.M.T. Entrance Examination 2002.
2. Appointed as Observer for B.Ed. Entrance Examination (Conducted by Bundelkhand University, Jhansi (U.P.) from 2002 to 2006.
3. Appointed as Centre Representative for C.P.M.T. Entrance Examination 2011.
4. Appointed as **Co-coordinator in Department of Applied Chemistry**, Bundelkhand University, Jhansi, in 01/06/2005.
5. Appointed as **Co-coordinator in Department of Chemistry**, Bundelkhand University, Jhansi, in 29/07/2008.
6. Appointed as **Examination Co-coordinator in Department of Chemistry**, Bundelkhand University, Jhansi, in 2008.
7. Appointed as B.U. Representative for B.Ed. Entrance Examination 20/05/2014.(Deistic Saharanpur)
8. Appointed as **Co-coordinator in Department of Chemistry**, Bundelkhand University, Jhansi, in 19/1/2015 to 27/02/2018
9. Appointed as Observer for B.Ed. Entrance Examination (Conducted by Lucknow University, Lucknow (U.P.) 29/07/2021
10. Appointed as Observer for Ph.D. Entrance Examination (Conducted by Bundelkhand University, Jhansi (U.P.) 31/12/2021
11. Appointed as C.S. for Annual Examination 2011 (Conducted by Bundelkhand University, Jhansi) in Village Balika Mahavidyalaya, Rajgarh, Jhansi.
12. Appointed as C.S. for Annual Examination 2012 (Conducted by Bundelkhand University, Jhansi) in Village Balika Mahavidyalaya, Rajgarh, Jhansi.
13. Appointed as C.S. for Annual Examination 2013 (Conducted by Bundelkhand University, Jhansi) in H. N. Memorial Girls Degree College, Shivagi Nagar, Jhansi.
14. Appointed as C.S. for B.B.A I & III Semester Examination, December 2013 (Conducted by Bundelkhand University, Jhansi) in SR College Of Professional Studies, Ambabai, Jhansi.
15. Appointed as C.S. for B.B.A II & IV Semester Examination, May 2014 (Conducted by Bundelkhand University, Jhansi) in SR College Of Professional Studies, Ambabai, Jhansi.
16. Appointed as C.S. for B.C.A. II & IV Semester Examination, May-June 2014 (Conducted by Bundelkhand University, Jhansi) in SR College Of Professional Studies, Ambabai, Jhansi

### **Personal Particulars**

Name: DHIRENDRA KUMAR SHARMA

Father's Name: SHRI RAM NARYAN SHARMA

Mothers Name: SMT.MRIGNANI SHARMA

Date of Birth: 20.07.1975

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I hereby state that all the information furnished above are true to the best of my knowledge and belief.

Place: Jhansi

Date: 25/11/2023

(DHIRENDRA KUMAR SHARMA)