

PROFILE OF THE TEACHERS

1. Name: Dr. Dipendra Sharma
2. Father's Name: Late Sudama Prasad Sharma
3. Mother's Name: Mrs. Rita Sharma
4. Department: PHYSICS
5. Date of Joining the University: 02/07/2018



6. Total Teaching Experience: UG- 05 Years 06 Months; PG- 03 Years 09 Months
7. Total Research Experience: 03 Years 09 Months
8. Area of Specialization: Computational Soft Condensed Matter: Materials Science (Liquid Crystals); Molecular Biophysics; Quantum Computational Techniques
9. Academic Qualifications:

UG	B.Sc. in Physics and Electronics from DDU Gorakhpur University, Gorakhpur in 2003
PG	M.Sc. in Physics (Biophysics) from DDU Gorakhpur University, Gorakhpur in 2005
Ph.D.	Ph.D. from DDU Gorakhpur University, Gorakhpur in 2017. Title of the thesis: Studies of Molecular Structure and Interactions in Liquid Crystals
PDF	NA
Any Other	Qualified NET Organized by CSIR-UGC, New Delhi, India in 2011

10. International/National fellowship/financial support for advance studies/research

S. No.	Name of fellowship/financial support	Year of Award	National/International	Awarding Agency
1	UGC Start-Up Grant	2019	National	UGC, New Delhi

11. International/National award/recognition for academics

S. No.	Name of award/recognition	Year of Award	Title of the innovation	National/International	Awarding Agency

12. Extension activity participation

S.No.	Name of activity	Year

If any award received-

S. No.	Name of activity	Name of award/recognition	Year of Award	National/International	Awarding Agency

13. Ph.D. supervised

S. No.	Name of the Ph.D. scholar	Title of the Thesis	Year of registration of the scholar	Year of award of Ph.D.

14. Research/Review Papers published

S.No.	Title of paper	Name of the author/s	Name of Journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal		
						Link to website of journal	Link to article/paper/abstract of the article	Is it listed in UGC Care list/Scopus/Web of Science/other, mention
1.	Molecular structure and interaction energy studies of 4, 4'-methoxy bis-hydrazone	S. N. Tiwari and D. Sharma	Journal of Molecular Liquids	2015	ISSN: 0167-7322	https://www.journal.elsevier.com/journal-of-molecular-liquids	https://www.sciencedirect.com/science/article/abs/pii/S01677322	Yes
2.	Comparative computational analysis of electronic structure, MEP surface and vibrational assignments of a nematic liquid crystal: 4-n-methyl-4'-cyanobiphenyl	D. Sharma and S. N. Tiwari	Journal of Molecular Liquids	2016	ISSN: 0167-7322	https://www.journal.elsevier.com/journal-of-molecular-liquids	https://www.sciencedirect.com/science/article/abs/pii/S01677322	Yes
3.	Electronic structure and pair potential energy analysis of 4-n-methoxy-4'-cyanobiphenyl: A nematic liquid crystal	D. Sharma, M. K. Dwivedi and S. N. Tiwari	AIP Conference Proceedings	2016	ISSN: 1551-7616	https://aip.scitation.org/journal/ajpc	https://aip.scitation.org/doi/abs/10.1063/1.4946142	Yes

4.	Electronic structure of an anticancer drug DC81 and its interaction with DNA base pairs	G. Tiwari ¹ , D. Sharma, K. K. Dwivedi and M. K. Dwivedi	AIP Conference Proceedings	2016	ISSN: 1551-7616	https://aip.scitapon.org/journal/abstract	https://aip.scitapon.org/doi/abs/10.1063/1.4946257	Yes
5.	Electronic structure and vibrational spectra of 1OCB liquid crystal: a DFT study	D. Sharma and S. N. Tiwari	Emerging Materials Research	2017	ISSN: 2046-0147	https://www.icicevirtuallibra.com/toc/jemmj/current	https://www.iceicevirtuallibr.com/doi/abs/10.1616/jemmr.15.00000	Yes
6.	Electronic structure, FT-IR analysis and nematic behaviour studies of p-methoxybenzylidene p-ethylaniline: Ab-initio and DFT approach	D. Sharma and S. N. Tiwari	Journal of Molecular Liquids	2017	ISSN: 0167-7322	https://www.journals.elsevier.com/journal-of-molecular-liquids	https://www.sciencedirect.com/science/article/abs/pii/S0167732217317476	Yes
7.	Thermodynamical Properties and Infrared Spectra of 4-n-propoxy-4'-cyanobiphenyl: Hartree-Fock and Density Functional Theory Methods	D. Sharma, G. Tiwari and S. N. Tiwari	International Journal of Electroactive Materials	2017	ISSN: 2289-8360	https://www.electroactmater.com/	https://www.electroactmater.com/index.php/volume-5-2017?id=60&subid=281	No

8.	Molecular Structure, Frontier Orbital Analysis and Vibrational Assignments of a Nematic Liquid Crystal: 4-n-ethyl-4'-cyanobiphenyl	S. N. Tiwari, D. Sharma and M. K. Dwivedi	International Journal of Electroactive Materials	2017	ISSN: 2289-8360	https://www.electroactmater.com/	https://www.electroactmater.com/index.php/volume-5-2017?id=60&subid=281	No
9.	Molecular Structure and Vibrational Dynamics Studies of 4-n-propyl-4'-cyanobiphenyl using Ab initio and DFT Methods	D. Sharma and S. N. Tiwari	Materials Today: Proceedings	2018	ISSN: 2214-7853	https://www.journals.elsevier.com/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785318308848	Yes
10	Electronic Structure and Nano-Range Pair Potential Studies of a Smectic Liquid Crystal: 4-n-Nonyloxy-4'-Cyanobiphenyl	S. N. Tiwari and D. Sharma	Materials Today: Proceedings	2018	ISSN: 2214-7853	https://www.journals.elsevier.com/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785317320266	Yes
11.	Electronic Structure and Thermodynamic Properties of 4-n-heptyl-4'-cyanobiphenyl: A Computational Study	D. Sharma, G. Tiwari and S. N. Tiwari	Materials Today: Proceedings	2019	ISSN: 2214-7853	https://www.journals.elsevier.com/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785319306935	Yes

12.	Frontier Orbital and Conformational Analysis of a Nematic Liquid Crystal: 4-n-heptyloxy-4'-cyanobiphenyl	G. Tiwari, D. Sharma, S. N. Tiwari, N. B. Singh	Journal of Scientific & Industrial Research	2019	ISSN: 224456	http://nopr.niscair.res.in/handle/123456789/46	http://nopr.niscair.res.in/handle/123456789/50653	Yes
13.	Evolution of Anisotropy, First Order Hyperpolarizability and Electronic Parameters in p-Alkyl-p'-Cyanobiphenyl Series of Liquid Crystals: Odd-Even Effect Revisited	A. Kumar, A. K. Srivastava, S. N. Tiwari, N. Misra, D. Sharma	Molecular Crystals and Liquid Crystals	2019	ISSN: 1563-5287	https://www.tandfonline.com/journals/gmcl20	https://www.tandfonline.com/doi/abs/10.1080/15421406.2019.1641987	Yes
14.	In-silico investigation of optical, thermal and electronic properties for 4-n-alkoxy benzoic acid series (nOBA; n= 1–8)	D. Sharma, A. K. Srivastava and S. N. Tiwari	Journal of Molecular Liquids	2019	ISSN: 0167-7322	https://www.journals.elsevier.com/journal-of-molecular-liquids	https://www.sciencedirect.com/science/article/abs/pii/S0167732210167732	Yes
15.	Physico-chemical properties, frontier orbitals and spectral study of a nematogen: 4-n-ethoxy-4'-cyanobiphenyl and its two constituents	S. N. Tiwari, M. K. Dwivedi and D. Sharma	Materials Today: Proceedings	2020	ISSN: 2214-7853	https://www.journals.elsevier.com/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785320331345	Yes

16.	Electronic Structure and Molecular Docking Studies of an anti-HIV Drug: Stavudine	G. Tiwari, D. Sharma and N. B. Singh	Journal of Scientific & Industrial Research	2020	ISSN: 224456	http://nopr.nisca.ir.res.in/handle/123456789/46	http://nopr.nisca.ir.res.in/handle/123456789/54365	Yes
17.	Electronic structure, spectra analysis and nano-range interactions of mitoxantrone with RNA base pairs: an anticancer drug	G. Tiwari and D. Sharma	Materials Today: Proceedings	2020	ISSN: 2214-7853	https://www.journals.elsevier.com/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785320335653	Yes
18.	Electro-optical properties and IR analysis of 4-(4-ethoxybenzylideneamino) benzoic acid: A nematic liquid crystal	G. Tiwari and D. Sharma	AIP Conference Proceedings	2020	ISSN: 1551-7616	https://aip.scitation.org/journal/ajp	https://aip.scitation.org/doi/abs/10.1063/5.0001519	Yes
19.	In Silico Investigation of Electronic Structure, Binding Patterns and Molecular Docking of Nevirapine: An anti-HIV Type-1 Drug	G. Tiwari, A. Kumar and D. Sharma	Polycyclic Aromatic Compounds	2020	ISSN: 1563-5333	https://www.tandfonline.com/journals/gpol20	https://www.tandfonline.com/doi/abs/10.1080/10406638.2020.1852268	Yes
20.	Electronic and electro-optical properties of 5CB and 5CT liquid crystal molecules: A comparative DFT study	D. Sharma, G. Tiwari and S. N. Tiwari	Pramana: Journal of Physics	2021	ISSN: 0973-7111	https://www.springspr.com/journal/12043	https://link.springer.com/article/10.1007/s12043-021-02114-z	Yes

21.	DFT study of electro-optical, electronic and thermal properties of 4-n-alkoxy-4'-cynobiphenyl liquid crystal series	D. Sharma, T. K. Sahu and S. N. Tiwari	Phase Transitions	2021	ISSN: 1029-0338	https://www.tandfonline.com/journals/gpht20	https://www.tandfonline.com/doi/abs/10.1080/01411594.2021.1944628	Yes
22.	Molecular structure, spectroscopic (IR, Raman, NMR, UV-vis) and molecular docking studies of an anticancer drug: isoDC81	G. Tiwari, A. Kumar and D. Sharma	Materials Today: Proceedings	2021	ISSN: 2214-7853	https://www.journals.elsevier.com/materials-today-proceedings	https://www.sciencedirect.com/science/article/pii/S2214785321050495	Yes
23.	Estimation of Binding Sites of Efavirenz with 3EO9 Receptor: In Silico Molecular Docking and Molecular Dynamics Studies	G. Tiwari, M. S. Chauhan and D. Sharma	Polycyclic Aromatic Compounds	2021	ISSN: 1563-5333	https://www.tandfonline.com/journals/gpol20	https://www.tandfonline.com/doi/abs/10.1080/10104066.2021.1919981	Yes
24.	Electro-optical, electronic and conformational transitions of interstellar alkyl molecules at different temperatures: An ab-initio study	A. Tiwari, G. Tiwari, R. Prasad and D. Sharma	Current Research in Green and Sustainable Chemistry	2021	ISSN: 2666-0865	https://www.journals.elsevier.com/current-research-in-green-and-sustainable-chemistry	https://www.sciencedirect.com/science/article/pii/S266608652100182X	Yes

15. Books and chapters in edited volumes/ books published

S.No	Title of the book	Title of the chapter	National/International	Year of Publication	ISBN number	Affiliating institute at the time of publication	Name of the publisher

16. Papers in National/International conference proceedings

S.No.	Title of the Proceeding of the conference	Name of the conference	National /International	Year of Publication	ISBN/ISSN Number of the proceeding	Affiliating institute at the time of publication
1.	Proceeding of International Conference on Condensed Matter and Applied Physics	INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND APPLIED PHYSICS (ICC 2015), 30–31 October 2015, Bikaner, India	International	2016	ISBN: 978-0-7354-1375-7	DDU Gorakhpur University, Gorakhpur
2.	Proceeding of International Conference on Condensed Matter and Applied Physics	INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND APPLIED PHYSICS (ICC 2015), 30–31 October 2015, Bikaner, India	International	2016	ISBN: 978-0-7354-1375-7	DDU Gorakhpur University, Gorakhpur
3.	Proceeding of 10th National Conference on Solid State Chemistry and Allied Areas	10th National Conference on Solid State Chemistry and Allied Areas, 1-3 July, 2017, New Delhi, India	National	2018	ISSN: 2214-7853	DDU Gorakhpur University, Gorakhpur
4.	Proceeding of 6th National Conference on Nanomaterials and Nanotechnology	6th National Conference on Nanomaterials and Nanotechnology, 11 to 13 February 2017, Lucknow, India	National	2018	ISSN: 2214-7853	DDU Gorakhpur University, Gorakhpur

5.	Proceeding of International Conference on Multifunctional Advanced Materials, ICMAM-2018	International Conference on Multifunctional Advanced Materials, ICMAM-2018, October 5-7, 2018, Nagpur, India	International	2019	ISSN: 2214-7853	DDU Gorakhpur University, Gorakhpur
6.	Proceeding of International Conference on Advanced Functional Materials (Innovations in Chemical, Physical and Biological Sciences)	International Conference on Advanced Functional Materials (Innovations in Chemical, Physical and Biological Sciences), January 23-25, 2020, Nagpur, India	International	2020	ISSN: 2214-7853	DDU Gorakhpur University, Gorakhpur
7.	Proceeding of 11th National Conference on Solid State Chemistry and Allied Areas	11th National Conference on Solid State Chemistry and Allied Areas, December 20-21, 2019, Nagpur, India	National	2020	ISSN: 2214-7853	DDU Gorakhpur University, Gorakhpur
8.	Proceeding of International Conference on Condensed Matter and Applied Physics	3RD INTERNATIONAL CONFERENCE ON CONDENSED MATTER AND APPLIED PHYSICS (ICC-2019), 14-15 October 2019, Bikaner, India	International	2020	ISBN: 978-0-7354-1976-6	DDU Gorakhpur University, Gorakhpur
9.	Proceeding of National Conference on Recent Advances in Functional Materials-2020	National Conference on Recent Advances in Functional Materials-2020, New Delhi, India	National	2020	ISSN: 2214-7853	DDU Gorakhpur University, Gorakhpur

20. Patents filed/granted

S.No.	Name of Patent filed/granted	Patent number	Year of filling/award/published of patent

21. Collaborative activities with other institutions/ research establishments/ industry for research and academic development

Title of the collaborative activity	Name of the Collaborating agency with contact details	Year of collaboration	Duration	Nature of activity

22. Functional MoUs with institutions/industries in India and abroad for internship, on the job training, project work, student/faculty exchange and collaborative research

Name of the organisation/industry With whom MoU is signed	Year of signing MoU	Duration of MoU	Actual activities Under each MoU Year wise

23. E-content is developed

i - For e-PG- Pathshala, ii- For CEC (Under Graduate), iii- For SWAYAM, iv- For other MOOCs platform, v- For NPTEL/NMEICT/any other Government Initiatives

Name of the Module developed	Platform on which module is developed	Date of launching e content	Link to the relevant document and facility available in the institution	List of e-content development facility available	Provide link to videos of the media centre and recording facility
UG and PG Contents	e-Pathsala DDUGU				For UG: https://erp.ddugu.ac.in/epathshala_content.aspx For PG: https://erp.ddugu.ac.in/epathshala_content.aspx

24. Consultancy and corporate training-

Consultancy

Name of consultancy project	Consulting/sponsoring agency with contact details	Year	Revenue generated (Rs.)

Corporate training

Title of corporate training program	Agency seeking training with contact details	Year	Revenue generated (Rs.)	Number of trainees

25. Details of Conference/Seminar attended-

Year	Name of the Conference/workshop	International/National/ State	Name of the professional body for which membership fee provided	Amount support (INR)
2013	National Conference on “Application of High Pressure Techniques and Novel Materials in the Frontiers of Science”, October 25-26, 2013, NCEMP, Allahabad University, Allahabad	National		
2014	National Conference on “Materials Science and Technology”, March 10-11, 2014, NCMST-14, M.M.M. University of Technology, Gorakhpur (U.P.), India	National		
2015	National Conference on “Recent Advances in Chemical & Materials Science”, February 23-24, 2015, NCRACMS-15, M.M.M. University of Technology, Gorakhpur (U.P.), India	National		
2015	National Conference on “Solid State Chemistry and Allied Areas”, May 8-10, 2015, ISCAS-2015, Bhaskaracharya College of applied sciences, University of Delhi, Delhi, India	National	DDU Gorakhpur University, Gorakhpur	1500/-
2015	International Conference on “Contemporary Advances of Science and Technology”, August 7-9, 2015, IC-CAST-15, Department of Physics, Banaras Hindu University, Varanasi (U.P.), India	International		
2015	International Conference on “Multifunctional Materials for Future Applications (ICMFA-2015), October 27-29, 2015, Department of Chemistry, I.I.T. BHU, Varanasi (U.P.), India	International		
2015	International Conference on “Condensed Matter & Applied Physics”, October 30-31, 2015, Department of Physics, Govt. Engineering College, Bikaner, Rajasthan, India	International		
2016	International Conference on Advances in Light Technologies and Spectroscopy of Materials (ICALTSM-2016), January 16-	International		

	18, 2016, Department of Physics, University of Lucknow, Lucknow, India			
2016	National Conference on Functional Materials, March 10-12, 2016, Department of Physics, DDU Gorakhpur University, Gorakhpur, India	National		
2017	International Conference on Structure and Dynamics of Biomolecules, January 27-28, 2017, Department of Physics, DDU Gorakhpur University, Gorakhpur, India	International		
2017	International Conference on Emerging Materials and Applications, February 20-22, 2017, Department of Physics, University of Allahabad, Allahabad, India	International		
2017	2 nd National Conference on Functional Materials: State of art (NCFM-2017), March 31- April 1, 2017, School of Basic Science and Research, Sharda University, Greater Noida, India	National		
2017	10 th National Conference on Solid State Chemistry and Allied Areas (ISCAS-2017), July 1-3, 2017, Department of Applied Physics, Delhi Technical University, Delhi, India	National		
2018	2 nd Meghnad Saha Memorial International Symposium-cum-Workshop on Laser Induced Breakdown Spectroscopy (MMISLIBS-II 2018), February 19-21, 2018, Department of Physics, University of Allahabad, Allahabad, India	International		
2018	International Conference on Advances in Biological and Environmental Research for Human Welfare (ICABERHW-2018), November 16-18, 2018, Department of Zoology, DDU Gorakhpur University, Gorakhpur, India	International		
2018	National Symposium on Advances in Materials Science, December 7-8, 2018, Department of Physics, DDU Gorakhpur University, Gorakhpur, India	National		
2019	National Seminar on Biotechnological Interventions in Agriculture, Health and Industry (BIAHI-2019), February 23-	National		

	24, 2019, Department of Biotechnology, DDU Gorakhpur University, Gorakhpur, India			
2019	3 rd International Conference on “Condensed Matter & Applied Physics”, October 14-15, 2019, Department of Physics, Govt. Engineering College, Bikaner, Rajasthan, India	International		
2019	11 th National Conference on Solid State Chemistry and Allied Areas, December 20-21, 2019, Seth Kesarimal Porwal, College of Arts, Science and Commerce, Kamptee	National		
2020	National Conference on Recent Advances in Functional Materials (RAFM-2020), November 5-6, 2020, Department of Physics, ARSD College, University of Delhi, New Delhi, India	National		

26. Any other information:

- ❖ Worked as an evaluator in 27th State Level National Children’s Science Congress-2019, organized by Regional Science & Technology Centre, at RPM Academy, Green City, Gorakhnath, Gorakhpur.
- ❖ Delivered an Invited Talk in 2nd National Conference on “Materials and Devices (NCMD-2021)” organized by Teerthankar Mahaveer University, Moradabad held on 16-17 September 2021. Title of the talk was “Electro-optical properties of MBBA liquid crystal surrounded by acetonitrile medium enhanced under the presence of electric field: An ab-initio study”.
- ❖ Worked as a reviewer of Materials Today Proceedings in the International Conference on Innovation and Application in Science and Technology organized by Galgotias College of Engineering and Technology, Greater Noida held on 21-23 December-2021.
- ❖ Chaired a session in the International Conference on Innovation and Application in Science and Technology organized by Galgotias College of Engineering and Technology, Greater Noida held on 21-23 December-2021.
- ❖ Evaluated the oral/poster presentations in Transdisciplinary International Conference on Integrated Approach in S & T for Sustainable Future organized by Dr. Ambedkar College, Deekshabhoomi, Nagpur; Seth Kesarimal College of Arts, Science and Commerce, Kamptee; Priyadarshani J. L. College of Engineering, Nandanwan, Nagpur and P. G. T. D. of Mole. Bio. & Gen. Engg., RTMNU, Nagpur during 26-27 February-2022.