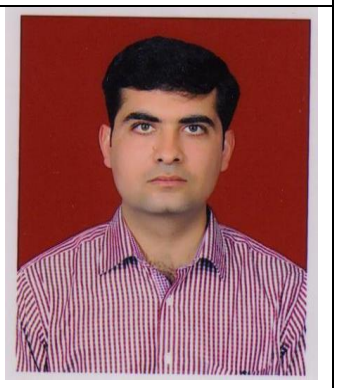
FACULTY DETAILS PAGE ON WEB-SITE

Name	**Dr. Jayant Teotia**	Photograph
Designation	Assistant Professor	
Department	Physics Department	
Address (Campus)	D.N. College, Railway Road, Meerut – 250002	
(Residential)	B-32 Meenakshi Puram, Mawana Road, Meerut – 250001	
Phone No (Campus) (Residence)	0121-2519222, 4007794	
	0121-2620672	
Mobile	09457887162	
Email	jayant.phy@gmail.com	

Education

Subject	**Institution**	**Year**	**Details**
Ph.D.	C.C.S. University, Meerut	2014	Electronic and Vibrational Spectral Studies and Calculation of Some Physical Parameters of Some Substituted Quinolines
NET-JRF (Physical Sciences)	CSIR, New Delhi	2006	Qualified
P.G. (M.Sc. Physics)	C.C.S. University Campus, Meerut	2005	First Division
U.G. (B.Sc.)	Meerut College, Meerut (C.C.S. University, Meerut)	2003	First Division

Career Profile

Organization/Institution	**Designation**	**Duration**	**Role**

D. N. College, Meerut	Assistant Professor	Since 24-01-2009	A Mentor, a Guide and a navigator to the students

Research Interests / Specialization

In Primary researches with original studies – Atomic and Molecular Spectroscopy

Research Supervision	**Awarded**	**Submitted**	**Working**
Ph.D.	-	-	04

Teaching Experience (Subject / Courses Taught) (Since 24.01.2009)

B.Sc.: (Mechanics and Relativity, Basic Circuit and Fundamentals, Heat and Thermodynamics, Quantum and Statistical Mechanics, Atomic and Molecular Spectroscopy, Nuclear Physics, Solid State Physics). **M.Sc.**: (Mathematical Physics, Atomic and Molecular Spectroscopy, Classical Mechanics, Nuclear Physics, Statistical Mechanics, Electromagnetic Theory and Plasma Physics).

Publications

In Indexed / Peer Reviwed Journals/Edited Books/ Proceedings

1. B.S.Yadav, Rajesh Kumar, Manoj Kumar Singh, **Jayant Teotia**, Structural Studies and Ab initio, density functional theory of 2,6-diamino-3-nitrosopyridine, "International Transactions in Applied Sciences", Vol. 1 No.4, December **2009**, Pp. 581-594, ISSN 0974-7273.
2. B.S.Yadav, Manoj Kumar Singh, Vijay Kumar, Manju Singh, **Jayant Teotia**, Infrared, Laser Raman Spectral Studies and Thermodynamic properties of 2-amino-4,6-dimethoxy Pyrimidine Molecule, "International Transactions in Applied Sciences", Vol. 1 No.4, December **2009**, Pp. 609-620, ISSN 0974-7273.
3. M.K. Yadav, Bandana, **Jayant Teotia**, Vibrational Spectral Analysis, Molecular Polarizability and Structural Parameters for Substituted Aniline, "International Transactions in Applied Sciences", Vol. 2, No.2, April-June **2010**, Pp. 233-243, ISSN 0974-7273.
4. Vijay Kumar, Manoj Kumar Singh, Sudesh Kumar Sharma, **Jayant Teotia**, B.S.Yadav, Influence of Transverse Shear and Rotatory Inertia on Thermal Vibrations of Infinite Plate of Parabolically varying Thickness, "International Transactions in Applied Sciences", Vol.2, No.3, Jul-Sep **2010,** , Pp. 422-443, ISSN 0974-7273.
5. Manoj Kumar Singh, Sudesh Kumar Sharma, Preeti Yadav, Vijay Kumar, **Jayant Teotia**, B.S.Yadav, Molecular Polarizability of 2-hydroxy-4-methyl Pyrimidine hydrochloride, "International Transactions in Applied Sciences", Vol. 3 No.3, Jul-Sep **2011**, ISSN 0974-7273, Pp. 537-542.
6. **Jayant Teotia**, M.K.Yadav, Quantum Chemical Investigations, Vibrational Assignments & DFT calculations of 5-amino-6-nitroquinoline, Full Paper Published in Proceeding of National Conference on upcoming Trends in Chemical Sciences, Department of Chemistry, Shri Anand College of Science, Pathardi, Ahmednagar, Maharashtra, 6-7 September, **2013**. ISBN-971-81-905776-99-9.
7. Vinita, **Jayant Teotia**, Seema, M.K.Yadav, FTIR, FT-Raman, and molecular structure investigation of 5-chloro-2,3-dihydroxy-pyridine: A combined experimental and theoretical study, "International Transactions in Applied Sciences", Vol.6, No.2, April-June **2014,** Pp. 205-22, ISSN 0974-7273.

8. Rajesh Kumar, Sarvendra Kumar, **Jayant Teotia**, M.K.Yadav, Experimental and Theoretical (ab initio and DFT) Analysis of UV-Vis Spectra, Thermodynamic Functions and Non-linear Optical Properties of 2-chloro-3,4-dimethoxybenzaldehyde, "Journal of Advances in Physics", Vol.8, No. 2, **2015**, ISSN 2347-3487.
9. **Jayant Teotia**, Sarvendra Kumar, Surbhi, Rajesh Kumar, M.K.Yadav, Ultraviolet absorption spectra, solvent effect and non-linear optical properties of 2-amino-4,6-dimethylpyridine by Hartree-Fock and Density Functional Theory, "Asian Journal of Chemistry", Vol. 28, No. 10, **2016**, Pp. 2204-2210, ISSN 0970-7077.
10. Seema, **Jayant Teotia**, Vishrut Chaudhary, B.S.Yadav, Second-order nonlinear optical (NLO) properties and Thermodynamic parameters of 5,7-dibromo-8-hydroxyquinoline by ab-initio Hartree Fock and Density Functional Theory, "International Journal of Engineering, Applied and Management Sciences Paradigms", Vol. 54, Issue 3, **2019**, Pp. 126-131, ISSN 2320-6608.

RESEARCH PAPERS ATTENDED / PRESENTED IN SEMINARS/CONFERENCES/WORKSHOPS

(A) INTERNATIONAL:

1. Attended **International Workshop "Introduction to Gaussian: Theory and Practice",** Central Leather Research Institute, and Indian Institute of Technology, Madras, January 2-6, 2012.
2. Presented paper titled "Molecular Vibrational Assignments and various Parameters of some substituted Quinoline using Density Functional Theory", **International Conference: Recent Trends in Interdisciplinary Sciences: Opportunities and Challenges**, Faculty of Science, M.M.College, Modinagar (U.P.), Feb 28-March 01, 2014.
3. Presented paper titled "Vibrational Spectroscopic Investigations, First Polarizability of 6-chloro-2-methylquinoline by Density Functional Theory", 2nd International Conference on **"Innovative Approaches in Applied Sciences and Technologies",** Nanyang Executive Centre, Nanyang Technological University, Singapore, 19-23 June, 2017.
4. Presented paper titled "Vibrational spectral studies of quinoline derivative by Density Functional Theory", **International webinar (e-conference) on "Prospective of Interdisciplinary Research in Science and Technology in the Present Scenario",** Department of Physics, C.C.S.University, Meerut (U.P.), May 15-16, 2020.
5. Presented paper titled "FT-IR, FT-Raman and NLO analysis of hydroxy substituted quinoline by HF and DFT", **International e-Conference on "Recent Trends in Advancement of Mathematical and Physical Sciences",** Deva Nagri College, C.C.S.University, Meerut (U.P.), May 22-23, 2020.
6. Attended **International e-Conference on "Sustainable Development after COVID-19: Environmental Issues and Challenges",** Department of Zoology and Botany, Deva Nagri College in collaboration with Department of Toxicology, C.C.S.University, Meerut (U.P.), June 01-02, 2020.
7. Attended **International Webinar on "Perspective on Scientific writing & Soft skills for Academicians and Professionals",** NEEV A social Educational initiative of IIT Alumni and Department of Physics, C.C.S.University, Meerut (U.P.), August 06, 2020.

(B) NATIONAL:

8. Presented paper titled "Vibrational Spectroscopic investigations, ab initio & DFT studies of some substituted Quinoline", **National Symposium on "Lasers & their Applications"**, Physics Department, C.C.S. University, Meerut (U.P.), 12 September, 2009.
9. Presented paper titled "Analysis of vibrational spectra of 6-chloro-2-methylquinoline based on density functional theory & ab initio Hartree-Fock calculations", **2rd National Seminar on "Recent Trends in Advancement of Mathematical and Physical Sciences",** D.N.College, Meerut (U.P.), 30-31 January, 2010.
10. Presented paper titled "A Review on Density Functional Theory", **3rd National Seminar on "Recent Trends in Advancement of Mathematical and Physical Sciences",** D.N.College, Meerut (U.P.), 5-6 February, 2011.

11. Presented paper titled "FT-IR and FT-Raman spectra, vibrational assignments, NBO analysis and DFT calculations of some quinoline derivative", **National Seminar on "Recent Trends in Advancement of Mathematical and Physical Sciences"**. D.N.College, Meerut(U.P.). 17-18 March, 2012.

12. Presented paper titled "FT-IR and FT-Raman spectra, vibrational assignments and DFT calculations of some substituted quinoline", **National Seminar on "Recent Advances in Condensed Matter Physics"**, Department of Physics, D.A.V.(PG) College, Muzaffarnagar, 19-20 March, 2013.

13. Presented paper titled "Quantum Chemical Investigations, Vibrational Assignments& DFT calculations of 5-amino-6-nitroquinoline", **National Conference on "Upcoming Trends in Chemical Sciences"**, Department of Chemistry, Shri Anand College of Science, Pathardi, Ahmednagar, Maharashtra, 6-7 September, 2013.

14. Attended **National Seminar on "Role of Ion Beam in Materials Science and Acquaintance Programme on Ion Beam Facilities at IUAC New Delhi"**, Department of physics, C.C.S. University, 20 September, 2013.

15. Presented paper titled "FT-IR, FT-Raman and DFT studies of some substituted quinolines", **National Conference on "Emerging Trends of Science &Technology-2013"**, Monad University, Hapur, 9th November, 2013.

16. Attended One day Interactive Seminar on **"Role of CST UP in Promotion of Science & Technology and Facilitation of IPR Protection"**, Council of Science and Technology, Lucknow (U.P.) and Intellectual Property Cell, C.C.S.University, Meerut (U.P.), March 2015.

17. Attended **National Workshop on "Understanding Academic Integrity and Practice to Avoid Plagiarism",** Department of English, D.N. College, Meerut (U.P.), 20 September 2019.

18. Attended **National Webinar on "Statistics & Data Analytics: Trending Career Options"**, N.A.S. College Statistics Association in association with TWY Academy, 27th May, 2020.

19. Attended **National Webinar on "Effect of COVID-19 on the study of Theoretical and Experimental Physics: Challenges and Prospects"**, Department of Physics, N.A.S. College, Meerut (U.P.), 2nd June, 2020.

20. Attended Webinar on **"Academic Publishing & Enhancing Research Effectiveness**", Dr. Zakir Hussain Library, Jamia Millia Islamia, New Delhi, June 9, 2020.

21. Attended Webinar on **"Application of Spectroscopy in Research Field",** Department of Chemistry, Ismail National Mahila PG College, Meerut (U.P.), 18 June, 2020.

22. Attended Workshop on **"Importance of Science and Scientific approach in daily lives",** Global Science Connect, 26th July, 2020.

Orientation / Refresher Courses:

S. No.	Course	Duration	Conducted by
1.	Orientation Course	27-09-2010 to 22-10-2010	UGC, Academic Staff College, Jawaharlal Nehru University, New Delhi
2.	Refresher Course	07-01-2013 to 26-01-2013	UGC, Academic Staff College, University of Rajasthan, Jaipur
3.	Refresher Course	26-09-2018 to 17-10-2018	UGC, HRDC, Jamia Millia Islamia, New Delhi
4.	Refresher Course	05-11-2019 to 19-11-2019	UGC, HRDC, Jamia Millia Islamia, New Delhi

5.	Online Training	12.01.2021 to 18.01.2021	Science Tech Institute, Lucknow, Uttar Pradesh
6.	Online Workshop	25.10.2021 to 30.01.2021	UGC-Human Resource Development Centre, Himachal Pradesh University, Shimla