


FACULTY DETAILS PAGE ON WEB-SITE

Name	Dr. M.K. Yadav	Photograph
Designation	Associate Professor & Head	
Department	Physics Department	
Address (Campus)	D.N. College, Railway Road, Meerut - 250002	
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Education

Subject	Institution	Year	Details
Ph.D.	C.C.S. University, Meerut	2002	Physics (Molecular Spectroscopy)
M. Phil.	Meerut University Campus, Meerut	1992	First Division
P.G. (M.Sc. Physics)	Meerut University Campus, Meerut	1989	First Division
U.G. (B.Sc.)	N.A.S. College, Meerut (Meerut University, Meerut)	1987	First Division

Detail of Teaching Experience

Level	Teaching Experience	Name of Institution
Under Graduate	25 Years	D.N. College, Meerut
Post Graduate (Under Self-Finance Scheme)	19 Years	D.N. College, Meerut

Career Profile

Organization/Institution	Designation	Duration	Role
D.N. College, Meerut	Associate Professor	Since 1995	A Mentor, a Guide and a navigator to the students
D.N. College, Meerut	Proctor	2013- till date	Playing role in Policy making
D.N. College, Meerut	Games Incharge	2004- 2014	Inculcating discipline and promoting co-curricular activities

Research Interests / Specialization

In Primary researches with original studies – Atomic and Molecular Spectroscopy

Detail of Research Supervision

Research Supervision	Awarded	Submitted	Working
Ph.D.	07	Nil	01

Publications (since 2007)

List of Published Research Papers

In Indexed / Peer Reviewed Journals/Edited Books/ Proceedings

1. Vir Singh, Vipin Kumar, **M.K. Yadav**, Seema, B.S. Yadav, Vibrational spectra of 2, 4-Dihydroxy-6-Methyl Pyrimidine, "Oriental J. of Chemistry", Vol. 12 No. (3), 267-274 (1996).
2. B.S. Yadav, **M.K. Yadav**, Vipin Kumar, Vir Singh, Effect of Solvents And PH Variation on electronic Spectra of Dichloro-Nitroanilines, "Asian Journal Of Chemistry", Vol. 9, No. 3, 372-378 (1997).
3. B.S. Yadav, Vir Singh, **M.K. Yadav**, Sanjeev Chaudhary, Vibrational spectra and thermodynamic functions of substituted chloropyrimidine, "Indian J. of Pure & Applied Physics", Vol. 35, 305-309 (1997).
4. B.S. Yadav, Vir Singh, Vipin Kumar, **M.K. Yadav**, Sanjeev Chaudhary, Vibrational spectra of 4-hydroxy-2-mercapto-6-methyl Pyrimidine, "Communication in Instrumentation", Vol. 5, No. 3, PP-131-142 (1997).
5. Vir Singh, Vipin Kumar, **M.K. Yadav**, B.S. Yadav, Seema, Vibrational spectra of 2,4-Dimethyl-6-Hydroxy Pyrimidine, "Asian J. of Chemistry", Vol. 9, No. 3, 411-417 (1997).
6. B.S. Yadav, Vipin Kumar, **M.K. Yadav**, Vibrational Spectra, thermodynamic parameters and fungicidal activity of 2-hydroxy-3-methoxy benzaldehyde thiosemicarbazone, "Indian J. of Pure & Applied Physics", Vol. 36, 557-566 (1998).
7. B.S. Yadav, Vipin Kumar, **M.K. Yadav**, Seema, Geeta Bansal, Spectroscopic study and

- biological investigation of 3,4,5-trimethoxy benzaldehyde hydrazine, "Indian J. Toxicology", Vol. 5, No. 2, 41-46 (1998).
8. B.S. Yadav, Vipin Kumar, Vir Singh, **M.K. Yadav**, Subhash Chand, Vibrational Spectral Studies and Thermodynamic functions of 4,6-dihydroxy-5-Nitro Pyrimidine, "Indian J. Physics", Vol. 72B (3), 249-256 (1998).
 9. B.S. Yadav, Vipin Kumar, **M.K. Yadav**, Indira Ratan Yadav and Geeta Bansal, Spectral Studies and Biological investigations of 2-hydroxy-3-methoxy Benzaldehyde, "Acta Botanica Indica", Vol. 26, 15-19 (1998).
 10. B.S. Yadav, **M.K. Yadav** and Vipin Kumar, Spectral and Biological study of 2-Chloro-3-Nitro Pyridine, "Acta Botanica Indica", Vol. 26, 11-14 (1998).
 11. B.S. Yadav, **M.K. Yadav**, Vipin Kumar, Pradeep Kumar, Vibrational Spectra of 2-Amino-3-nitro Pyridine, "Communications in Instrumentation", Vol. 6, No. 4, 191-198 (1999).
 12. B.S. Yadav, Nitin Kumar, Manoj Kumar Singh, **M.K. Yadav**, FTIR absorption spectra and thermodynamic functions of 5-chloro-2,3-dihydroxy Pyridine, "Indian J. Physics", Vol. 80(1), PP-61-65 (2006).
 13. B.S. Yadav, **M.K. Yadav**, Pradeep Kumar, Israt Ali, Preeti Yadav, FTIR and laser Raman Spectra 2,4,6-tribromo-3-methyl phenol, "Oriental Jr. of Chem"., Vol. 22(2), 447-451 (2006).
 14. B.S. Yadav, **M.K. Yadav**, Vipin Kumar, Pradeep Kumar, Vibrational Spectra of 2-Amino-3-Nitro Pyridine, "Communications in Instrumentation", Vol. 6(4), 191-198 (2007).
 15. B.S. Yadav, Amit Kumar Yadav, Subhash Chand, **M.K. Yadav** and I.A. Siddiqui, Vibrational Spectral Studies of 3-chloro-2,4,5,6- Tetra fluoro Pridine, Acta Ciencia, Vol. XXXIII P. No. 1, 119-123 (2007).
 16. Effects of Solvents and PH variation on electronic spectra of 2,6-dibromo-4-methyl phenol, "Acta Ciencia Indica", Vol. 33,113 (2007).
 17. Solvent effect on electronic absorption spectra of 2-amino-4-chloro-6-nitro phenol, "Acta Ciencia Acta", Vol 13, 515 (2007).
 18. Electronic spectral studies of 4-bromo-2-fluoro phenol in various solvents, "Indian Journal of Physics", 82(1), 117 (2008).
 19. **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, 233-243 (2010).
 20. **M.K. Yadav**, Bandana, Rajesh Kumar, Molecular Polarizability, vibrational spectral assignments and molecular structure of 4,5-dimethyl-2-nitro aniline, "International Transactions in Applied Sciences", Vol. 2, No.3, 475-486 (2010).
 21. **M.K. Yadav**, Bandana, Experimental Spectroscopic studies and Hartree Fock ab initio calculations of 2-bromo-4,6-dinitro aniline, Scholars Research Library, "Der Pharma Chemica", Vol. 2(6), 368-377 (2010).
 22. **M.K. Yadav**, Bandana Sharma, Gaurav Sharma, Perturbation of absorption spectra properties of 4,5-dimethyl-2-nitroaniline by polar, nonpolar solvents and substituents, Scholars Research Library, "Der Pharma Chemica", Vol. 3(2), 59-65 (2011).
 23. Bandana Sharma, **M.K. Yadav**, Manoj Kumar Singh, Ab-initio Hartree-Fock and Density functional theory calculations of 2-chloro-6-methoxy-3-nitropyridine, Scholars Research Library, "Archives of Applied Science Research", Vol. 3(2), 334-344 (2011).
 24. Munish Kumar, Rajesh Kumar, **M.K. Yadav**, UV Spectroscopic investigation of Halogen substituted Benzene using DFT calculations, "International Transactions in Applied Sciences", Vol. 4(1), 23-34 (2011).
 25. Munish Kumar, Rajesh Kumar, **M.K. Yadav**, Experimental (FTIR and FT-Raman) and theoretical (HF and DFT) investigation and frequency investigation analysis on 1-chloro-3,5-dibromo benzene, "International Transactions in Applied Sciences", Vol. 4(1), 1-221 (2011).

26. Vijay Kumar, Ritu Saran, **M.K.Yadav**, Manoj Kumar Singh, B.S.Yadav, Influence of Transverse shear and Rotatory Inertia on Thermal Vibrations of an Isotropic Circular Plate of Linearly varying thickness, "International Transactions in Applied Sciences", Vol. 5, No.2, 333-344 (2013).
27. 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.
28. 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.
29. 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.
30. 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.
31. Sarvendra Kumar, Surbhi, **M.K.Yadav**, Ultraviolet absorption spectra, Solvent effect and Non-linear optical properties of Tetrahydroxy-1,4-quinone by Hartree-Fock and Density Functional Theory, "Asian Journal of Chemistry", Vol. 29, No. 10, 2017, Pp. 2241-2248, ISSN 0970-7077.
32. Sarvendra Kumar, Surbhi, **M.K.Yadav**, Vibrational spectroscopic investigation, First hyperpolarizability and HOMO-LUMO analysis of Tetrahydroxy-1,4-quinone hydrate using Density Functional Theory and Hartree-Fock method, "Russian Journal of Physical Chemistry B", Vol. 12, NO. 3, 2018, Pp. 383-393, ISSN 1990-7931.