


### FACULTY DETAILS PAGE ON WEB-SITE

Name	<b>DR. MANOJ KUMAR SINGH</b>	Photograph
Designation	ASSISTANT PROFESSOR (UNDER SELF FINANCE SCHEME)	
Department	DEPARTMENT OF PHYSICS	
Address (Campus) (Residential)	D. N. (PG) COLLEGE, MEERUT	
	369 CHOBEY COMPOUND, WESTERN KUTCHERY ROAD, MEERUT	
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#### Education

Subject	Institution	Year	Details
Ph.D.	H.N.B. Garhwal University, Srinagar, Garhwal, Uttarakhand	2004	<i>Electronic and Vibrational Spectral Studies of Some Substituted Pyridines</i>
B.Ed.	C.C.S. University, Meerut	1992	<i>Second Division</i>
P.G.(M.Sc.Physics)	Meerut University, Meerut	1990	First Division
U.G. (B.Sc.)	Meerut University, Meerut	1987	Second Division

#### Career Profile

Organization/Institution	Designation	Duration	Role
D. N. COLLEGE, MEERUT	Part Time Lecturer	1991-1992	<i>A Mentor, a Guide and a navigator to the students</i>
AMBEDKAR INTER COLLEGE, GARH ROAD, MEERUT	Lecturer	1993-2003	<i>A Mentor, a Guide and a navigator to the students</i>

D. N. COLLEGE, MEERUT	Assistant Professor (Under self finance scheme)	2003- Till date	<i>A Mentor, a Guide and a navigator to the students</i>
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### Research Interests / Specialization

In Primary researches with original studies – Atomic and Molecular Spectroscopy

### Teaching Experience (Subject / Courses Taught)

**Intermediate:** 10 Years (Physics)

**B.Sc.:** 12+ Years (Mathematical Oscillations and Waves, Electricity and Magnetism, Basic Circuit and Fundamentals, Heat and Thermodynamics).

**M.Sc.:** 10+ Years (Atomic and Molecular Spectroscopy, Classical Mechanics, Nuclear Physics, Electromagnetic Theory and Plasma Physics).

Research Supervision	Awarded	Submitted
Working		
Ph.D.	None	None

### Publications (since 2007)

#### In Indexed / Peer Reviewed Journals/Edited Books/ Proceedings

1. B.S.Yadav, **Manoj Kumar Singh**, Seema, Vir Singh, Effect of solvents on electronic transition of some substituted pyrimidines, "Orientation J. of Chem.", Vol. 14(3), Pp 397-400, 1998.
2. B.S. Yadav, **Manoj Kumar Singh**, Manju Singh and Vipin Kumar, Electronic Absorption spectra and effect of solvents on electronic transitions of substituted Pyridines, "Oriental J. of Chemistry", Vol. 15(2), Pp 355-358, 1999.
3. B.S. Yadav, Manju Singh, **Manoj Kumar Singh** and Vipin Kumar, Electronic spectra and solvent effect of N-heterocyclic molecules of Biological interest, "Ultra Science", Vol. 11(3), Pp 331-335., 1999.
4. B.S. Yadav, Manju Singh, **Manoj Kumar Singh** and Atul Gupta, Solvent Effect on electronic Transitions of 6-Amino-1-methyl and 6-Amino-1,3-Dimethyl Uracils, "Oriental J. of Chemistry", VOL. 18(3), PP-501-504, 2003.
5. 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.
6. 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.
7. 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.
8. 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.

9. 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).
10. **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.
11. Sudesh Kumar Sharma, Yogesh Kumar Sharma, Ritu Saran, **Manoj Kumar Singh**, B.S.Yadav, Comparative Vibrational Spectroscopic Studies of 7-chloro-4-hydroxy-3-quinolinecarboxylic acid based on density functional theory, IOSR Journal of Applied Physics Vol. 1 Issue 3 , July-August 2012, Pp. 27-37.
12. 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.
13. Sudesh Kumar Sharma, Ritu Saran, **Manoj Kumar Singh**, Vijay Kumar, B.S. Yadav, Molecular Polarizability and Thermodynamic parameters of 6-bromo-2-methylquinoline, "International Transactions in Applied Sciences", Vol. 4 No.1, Jan-March 2012 ISSN 0974-7273, Pp. 61-72.
14. B.S.Yadav, Sudesh Kumar Sharma, Ritu Saran, **Manoj Kumar Singh**, Vibrational spectroscopy investigation using ab initio and density functional theory analysis on the structure of 6-bromo-2-methylquinoline, Ultra Scientist Vol. 24(2)B, 2012 ISSN 2231-346X, Pp. 277-294.
15. Sudesh Kumar Sharma, **Manoj Kumar Singh**, Jyoti Chaudhary, B.S. Yadav, Combined Experimental and Computational study of UV-VIS Spectra of 6-bromo-2-methylquinoline, Acta Ciencia Indica, Vol. XXXVIII P No.4, 2012 ISSN 2231-346X, Pp. 257-266.

## 9. RESEARCH PAPERS PRESENTED AND ATTENDED

### (A) INTERNATIONAL:

1. **Ab-Initio Hartree Fock and DFT Calculations of 2-amino-3-benzyloxy pyridine**, International Conference: Recent Trends in Interdisciplinary Sciences: Opportunities and Challenges, Faculty of Science, M.M.College, Modinagar (U.P.). Feb 28-March 01, 2014.
2. Presented Oral Paper on "**Electronic Spectra and NLO Properties of Substituted Pyridine**" in International e-Conference on "**Recent Trends in Advancement of Mathematical & Physical Sciences**" by Dev Nagri College, 22-23<sup>rd</sup> May 2020.
3. E-Conference attended on "Sustainable Development After COVID-19: Environmental Issues & Challenges" organized by Department of Zoology & Botany, Dev Nagri College in collaboration with Department of Toxicology CCS University, Meerut, 1<sup>st</sup>-2<sup>nd</sup> June 2020.
4. Attended "6<sup>th</sup> International Yoga Day Session" organized by Global Social Connect, 21<sup>st</sup> June 2020.

### (B) NATIONAL:

1. **National Seminar on "Environment & Human Concern"**, D.N.College, Meerut(U.P.). February 17, 2008.
2. **Vibrational Spectroscopic investigation using ab initio and DFT of the structure of 6-bromo-2-methylquinoline**, 3<sup>rd</sup> National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences. D.N.College, Meerut(U.P.). 5-6 February, 2011.
3. **Vibrational Spectroscopic Studies of Substituted Pyridines**, Conference on "Emerging Trends of Science & Technology-2013", Monad University, Hapur, 9<sup>th</sup> November, 2013.
4. 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.

5. Attended webinar titled on “**COVID-19 Pandemic: Altering the Education System**” by Global Social Connect, 18<sup>th</sup> May, 2020.
6. Attended webinar on “**Statistics & Data Analytics: Trending Career Options**” organized by N.A.S. College, Statistics Association with TWY Academy, 27<sup>th</sup> May 2020.
7. Attended Webinar on “**Bharitya Sanskriti Se Parast Hota Corona**” organized by Bhagwant University, Ajmer, 27<sup>th</sup>-28<sup>th</sup> May 2020.
8. Attended E-Conference on “**Self Reliant India – Opportunities & Challenges**” organized by Department of Commerce, Dev Nagri College, Meerut, 30<sup>th</sup> May 2020.
9. Attended National Webinar on “**Effect of COVID-19 on the Study of Theoretical & Experimental Physics: Challenges & Prospects**” organized by The Raman Society, Department of Physics, N.A.S. College, Meerut, 2<sup>nd</sup> June 2020.
10. Attended National Webinar on “**Vartaman Mein Vedic Ganit Ki Upyogita**” organized by Department of Mathematics, I.N.P.G. College Meerut, 8<sup>th</sup> July, 2020.
11. Attended National Webinar on “**Lok Jeevan Mein Shiv Tatva Ki Vyapakta**” organized by Department of History & Chemistry, Swami ShukDevAnand College, Shahjahanpur, U.P., 17<sup>th</sup> July, 2020.
12. Attended National Seminar on “**Lok Sanskriti Ki Bhartiya Pramaparaon Mein Corona**” organized by S.S. College Shahjahanpur, U.P., 26<sup>th</sup> July, 2020.

#### **10. QUIZZES**

1. Participated in a Quiz on “**COVID-19**” Conducted By Department Of Chemistry, Mahila Vidyalaya Degree College Lucknow, 6<sup>th</sup> May, 2020.
2. Participated in Quiz on “**Covid-19 Quiz**” Organized By Department Of Computer Science, Dev Nagri College Meerut, 19<sup>th</sup> May 2020.
3. Participated in a Quiz on “**Covid-19 Awareness Quiz**” organized by C.L. Jain (P.G.) College, Firozabad, 27<sup>th</sup> May 2020.
4. Participated in a Quiz on “**Aatm nirbhar Bharat & Covid-19 Quiz**” organized by DPBS PG College Anupshahr, Bulandshahr, U.P.
5. Participated in a Quiz on “**Hindi & Samsamyik**” ” organized by Hindu college Moradabad, 31 May 2020.
6. Participated in a Quiz on “**Covid-19 Pandemic General Awareness Quiz**” organized by Hindu college Moradabad, 31 May 2020