


## FACULTY DETAILS PAGE ON WEB-SITE

Name	<b>Dr. Bijender Singh Yadav</b>	Photograph
Date of Birth	07.07. 1964	
Designation	Associate Professor & Head	
Department	Physics	
Address (Campus)	D.N. College, Railway Road, Meerut - 250002	
(Residential)	184/1 Sharda Road, Behind S.B.I., Meerut	
Phone No (Campus)	0121-2519222,	
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### Academic Qualification

Degree	Board/ University	Year	Details
D.Sc. (Pursuing)	C.C.S. University, Meerut		
Ph.D.	Meerut University, Meerut	1991	Physics (Spectroscopy) Topic- "Electronic and vibrational spectral studies of some substituted halogen nitroanilines"
M.Sc.	Garhwal University, Srinagar	1986	Physics (Electronics) with First Division
B.Sc.	Garhwal University, Srinagar	1984	Physics, Chemistry, Mathematics with First Division

### Detail of Teaching Experience

Level	Teaching Experience	Name of Institution
Under Graduate	22 Years	D.N. College, Meerut
Post Graduate (Under Self-Finance Scheme)	12 Years	D.N. College, Meerut

### Career Profile

Organization/Institution	Designation	Duration	Role
D.N. College, Meerut	Associate Professor	Since 1990	A Mentor, a Guide and a navigator to the students
D.N. College, Meerut	Chief Proctor	2004- till date	Playing role in Policy making
D.N. College, Meerut	Adm. Convener	2004- till date	

### Honors and Awards

Best Shikshak Award- 2006
Vishishtha Shikshak Samman- 2013

**Detail of Research Supervision**

Research Supervision	Awarded	Submitted	Working
Ph.D.	23	01	01
Projects	Minor Research Projects completed (UGC)- 03	None	Major Research Project (UGC)- 01

**List of Research Scholars under the Supervision and Guidance**

1. Vibha Sharma
2. Vakul Bansal
3. Veer Singh
4. Vipin Kumar
5. M.K.Yadav
6. Manoj Singh
7. Manju Singh
8. Ritu Saran
9. Irshad Alam Siddhiqui
10. Ishrat Ali
11. Preeti Yadav
12. Sanjay Yadav
13. Shalini Singhal
14. Nitin Singh
15. Devendra Rana
16. Sanjeev Tyagi
17. Sudesh Sharma
18. Anil Kumar Pundir
19. Sanjeev Chaudhary
20. Karuna Gupta
21. Nidhi Sharma
22. Vashali Sharma
23. Amit Yadav
24. Sunil Kumar Sharma
25. Jyoti Chaudhary

**Publications****List of Published Research Papers**

1. Infrared Absorption spectra of 2-Amino-p-Crerol & 2-Amino-4-Chlorophenol, Indian J of Pure & Applied Physics, VOL 18, April (1990) 281-284.
2. Vibrational Spectra, thermodynamic parameters and fungicidal activity of 2-hydroxy-3-methoxy benzaldehyde thiosemicarbazone, Indian J. of Pure & Applied Physics, VOL 36, (1988) 577-556.
3. Vibrational spectra of 4,6-Dichloro-5-Nitropyrimidine Molecule, Acta Cienica Indica, VOL XV, (1989)183.
4. Vibrational and Electronic spectral studies of 2, 6-Di-Chloro-4-Nitroaniline. Orient J. Chem., VOL 6, No. 2, (1990)108-114.
5. Vibrational spectral studies of 2,6-Dibromo-4-nitroaniline, Scientist of Physical sciences, VOL 2, (1990)26.
6. Vibrational Spectra of 6-Amino-5-Nitro-2-Thiouracil, Oriental J. Chem., VOL 7, No. 2, (1991)71-77.

7. Electronic spectra of 2,6-Di Bromo-4-Nitroaniline,Acta Cienica Indica, VOL XVII, P 2, (1991)133.
8. Vibrational spectra of 4, 6-Dichloro-5-Amino Pyrimidine molecule, Acta Cienica Indica, VOL XXP No. 4,(1991)116.
9. Electronic spectra of 2,6-Dibromo-4-Nitroaniline,Acta, Cienica Indica, VOL XVII P, 2, (1991)133.
10. Electronic and Vibrational studies of 2,6-Di iodo-4-Nitroaniline,J. of Ind. Council of Chemistry, VOL VIII, No. 2, (1992).
11. Thermodynamics of 2, 4-difluorobenzonitrile, Asian J. Phy., VOL , 2, No. 3, (1993).
12. Thermodynamics of 2,4-Difluorobenzonitrile,Asian J of Physis, VOL 2, No. 3, (1993) 175-177.
13. Ultraviolet absorption spectra of copolymers and blends, Asian J. Phy., VOL 3, No. 2,(1994).
14. Vibrational Spectral of Acrylonitrile Butadiene styrene Ter polymer,Oriental J. Chem., VOL 10, No. 2, (1994)162-164.
15. Ultraviolet absorption spectra of copolymers and blends, Asian J of Physics, VOL 3, No. 2 (1994)105-108.
16. Infrared Absorption Spectra of Copolymer and Blends, Acta Cienica Indica, VOL XXP, No. 4, (1994) 120.
17. Dielectric Behavior of polymer Blends, Acta Cienica Indica, VOL 20, No. 3, (1994).
18. Vibrational spectra of 2, 4-Dihydroxy-6-Methyl Pyrimidine,Oriental J. of Chemistry, VOL 12. No. (3), (1996)267-274.
19. Effect of solvents and their pH variations on Electronic spectra of 5-carbethoxy-2-thiouracil, oriental J. Chem., VOL 12, No. 3,(1996).
20. Vibrational spectral studies of 5-methyl-2-thiouracil,Indian J. Physics,VOL 71B(6), (1997) 697-704.
21. Effect of Solvent and pH variation on electronic spectra of 6-amino-5-nitro-2-thiouracil, Indian J. of Pure & Applied Physics, VOL 35,(1997)587-593.
22. Vibrational spectra and thermodynamic functions of substituted chloropyrimidine, Indian J. of Pure & Applied Physics. VOL 35,(1997)305-209.
23. Vibrational spectral studies and Thermodynamic function of 5-Carbethoxy-2-Thiouracil, I.J. Physics ,VOL 71B(1), (1997)69-79.
24. Vibrational spectra of 4-hydroxy-2-mercapto-6-methyl Pyrimidine, Communication in Instrumentation, VOL 5, No. 3,(1997).
25. Vibrational spectra of 2,4-Dimethyl-6-Hydroxy Pyrimidine, Asian J. of Chemistry, VOL 9, No. 3(1997)372-378.
26. Effect of solvents and pH variation on electronic spectra of 2,4 Dichloro-Nitroanilines, Asian J. of Chemistry, VOL 9 No. 3,(1997) 372-378
27. Fourier transform infrared and Laser Raman Spectral Study of 2-Anilinopyridine
28. Infrared Absorption spectra of 2, 6-Di iodo-4-Nitrophenol,Journal of Indian Council of Chemistry, VOL (iv), No. 3,(1998).
29. Effect of solvents on electronic transition of some substituted pyrimidines. Vol.14(3).397-400(1998)
30. Spectroscopic study and biological investigation of 3,4,5-trimethoxy benzaldehyde hydrazone,Indian J. Oxicol.,VOL 5, No. 2, (1998) 41-60.
31. Vibrational Spectral Studies and Thermodynamic functions of 4,6-dihydroxy-5-Nitro Pyrimidine,Indian J. Physics,VOL 72B (3), 249-256 (1998).
32. Spectral Studies and Biological investigations of 2-hydroxy-3-methoxy Benzaldehyde Semecarbazone, Acta Botanica Indica,VOL 26, (1998)15-19.
33. Vibrational Spectra, thermodynamic parameters and fungicidal activity of 2-hydroxy-3-methoxy benzaldehyde thiosemecarbazone, Indian Journal of Pure & Applied Physics, VOL 36,(1998).
34. Effect of solvents on electronic transition of some substitute pyrimidine,Vol 4 ,397-400,(1998).
35. Spectral investigations and thermodynamic functions of 4-hydroxy-2-mercapto-6-Propylpyrimidine,Spectrochemica Acta Part A ,VOL 55,(1999)1267-1278.
36. Electronic Absorption spectra and effect of solvents on electronic transitions of substituted Pyridines,Oriental

- J. of Chemistry, VOL 15(2),(1999) 355-358.
37. Effect of Solvents and pH variation on electronic Spectra of 4, 6-dihydroxy-5-nitro Pyrimidine, Ultra Science, VOL 1, (1999).
  38. Vibrational Spectra of 2-Amino-3-nitro Pyridine Communications in Instrumentation, VOL 6, No. 4,(1999).
  39. Ultraviolet Absorption Spectra of some Trisubstitute Pyridines, Ultra Science, VOL 12(3), (2000).
  40. Solvent Effect on electronic Transitions of 6-Amino-1-methyl and 6-Amino-1,3-Dimethyl Uracils, Oriental J. of Chemistry, VOL 18(3), (2002).
  41. Electronic Spectral Studies of 2-Chloro-6-methoxy Pyridine in various solvents, Indian J. Phys., VOL 77 B(4), (2003).
  42. Solvent effect on Electronic Spectra of 2-methoxy-5-methyl and 3-Bromo-2,4,6-Tri methyl Anilines, Oriental J. of Chem., VOL 21(2),(2005).
  43. Solvent effect on Electronic spectra of 4-methyl-2-nitro & 2,3-Dimethyl-6-nitro Pyridine, Ultra Science, Vol 17(30),(2005).
  44. Synthesis and Biological Activity of some Nitro Compounds, annual of Agri-Bio Research ,VOL 10(2), (2005).
  45. Vibrational Spectral Studies of 2-chloro-6-fluoro Benzaldehyde, Materials Science Research, VOL 3(2),(2005).
  46. Vibrational Spectral Studies of 4-hydroxy-2-methyl quinoline, Ultra Science, VOL 18(3), (2006).
  47. FTIR & Laser Raman Spectral of 1-bromo-4-chloro-2-nitro benzene, Ultra Science, VOL 18(3), (2006).
  48. Electronic absorption Spectral and effect of Solvents on Electronic Transitions of 3-hydroxy-6-methyl-2-nitro Pyridine, Oriental J of Chem., VOL 22(2), (2006).
  49. FTIR and Laser Raman Spectrum of 1,2-Di Chloro-4-fluoro-5-nitro benzene, Materials Science Research India, VOL 3(1a), (2006).
  50. FTIR spectrum of 1-bromo-3-Fluoro-4-Iodo Benzene, Materials Science Research India, Vol 3. (1a), (2006).
  51. Solvent Effect on Electronic Transitions of 4-Allyl-1, 2-Di methoxy benzene, Oriental J. of Chem., VOL 22(2), (2006).
  52. Vibrational Spectral Studies of 6-propyl-2-Thiouracil, Ultra Science, VOL 18(2),(2006).
  53. FTIR Spectrum of 2-chloro-6-methyl Pyridine, Oriental J. Chem., VOL 22(1),(2006).
  54. Effect of solvents on Electronic Transitions of 3,5-di bromo Pyridine, Ultra Science, VOL 18(2), (2006).
  55. Electronic Absorption Spectra and Effect of Solvents on Electronic Transitions of 3-hydroxy-6-methyl-2-nitro Pyridine, Oriental J. of Chem., VOL 22(2),(2006).
  56. FTIR absorption spectra and thermodynamic functions of 5-chloro-2,3-dihydroxy Pyridine, IJP, VOL 80(1),(2006).
  57. FTIR & Laser Raman Spectra of 2, 4, 6-Tri bromo-3-methyl Phenol, Oriental J. of Chem., VOL 22, No. 2, (2006).
  58. Effect of Solvents and pH variation on electronic spectra of 2-hydroxy-4-methoxy Benzaldehyde, Ultra Science, VOL 18(2),(2006).
  59. Molecular Polarizability of some substituted Benzaldehydes,Proc RTAMPS, (2006).
  60. Electronic spectral studies of 2-Chloromethyl-4-Methoxy-3,5-Dimethyl Pyridine hydrochloride in various solvents. Proceedings in RTAMPS,(2006).
  61. Thermodynamic functions of trichloro pyridine proceedings in RTAMPS,(2006).
  62. High pressure Mossbauer measurements on nanocrystalline. Proceedings in RTAMPS, (2006).
  63. Electronic spectra of dimethyl-2, 6-pyridine dicarboxylate in various solvents. Materials science Research India, VOL 3(2a),(2006) 257-260.
  64. Molecular Polarizability of substituted Pyridine. Material Science Research India, VOL 3(2a), (2006) 287-290.

65. Electronic spectral studies of 2-hydroxy-5-methyl-3-nitro pyridine in various solvents, Materials Sc. research India, VOL 3(2a), (2006)279-282.
66. Electronic Spectral Studies of 2-Hydroxy, 5-methyl-3-nitro pyridine in various solvent, (Material Sc. Journal India) VOL 3(2a), (2006)
67. Electronic spectral studies of 2-chloro-6-methyl pyridine in various solvents, Indian J. Phys., VOL 81(3), (2007)395-401.
68. Vibrational spectral studies of 4-Hydroxy-3-Nitro pyridine, Ultra Science, VOL 19(1), (2007)73-78.
69. Ultraviolet absorption spectra of 1-ethyl-1,2-dihydro-6-hydroxy-4-methyl-2-oxo-3-pyridine carbonitrile, Acta Cienica Indica, VOL 33, (2007)553.
70. FTIR and Laser Raman spectra of 2-hydroxy-5-methyl-3-nitro pyridine, Indian J. Pure and Applied Physics, VOL 45, (2007)979.
71. FTIR spectroscopic study of 2-hydroxy-4-methyl pyrimidine Hydrochloride, Asian Jr. Chem., VOL 20, No. 1, (2008)273-276.
72. Electrical characterization of Ni/Au contact for Quantum photodetectors, Infrared Physics and Technology, Online Published, (2011).
73. Molecular Polarizability of 2-hydroxy-4-methylpyrimidine hydrochloride, International Transactions in Applied Sciences, No. 3., VOL 3 (2011) 537-542.
74. FT-Raman and FT-IR spectra, vibrational assignment ab-initio, HF & DFT analysis of 6-Amino-1, 3-dimethyl-uracil (International Transactions in Applied Sciences), VOL 3, No. 4, PP 905-916 (2011)
75. Comparative vibrational spectroscopic studies of 7-chloro-4-hydroxy-3-quinolinecarboxylic acid based on density functional theory, IOSR Journal of Applied Physics, Issue 3, VOL 1, (2012) 27-37.
76. Vibrational spectroscopy investigation using ab-initio and density functional theory analysis on the structure of 6-bromo-2-methylquinoline, Journal of Ultra Scientist of Physical Sciences, VOL 24(2)B, (2012) 277-294.
77. Molecular Polarizability and Thermodynamic parameters of 6-bromo-2-methylquinoline, International Transactions in Applied Sciences No. 1, VOL 4, (2012) 61-72.
78. Combined Experimental and Computational Study of UV-Vis Spectra of 6-bromo-2-methylquinoline, Acta Ciencia Indica, 118/P012, Accepted, (2012).
79. Influence of transverse shear and rotatory inertia on thermal vibration isotropic circular plate of linearly varying thickness., (Internation Transaction in Applied Sciences), VOL 5, (2013).
80. Molecular polarizability of 2-hydroxy-4-methyl pyrimidine hydrochloride, (ITAS), Sep 2011, VOL 3, PP 537-542 (ISSN)

#### **List of Attended Seminar and Conferences**

1. The National Academy of Sciences, India (59<sup>th</sup> Annual Session) held at Osmania University, Hyderabad from Jan 6-8, 1990 (Presented Research papers "IR Spectra..... 4 aniline" and "Infrared..... anilines").
2. The National Academy of Sciences, India (61<sup>th</sup> Annual Session) held at Meerut from December 19-21, 1991 (Presented Research papers in Physical Sciences Section / Biological Sciences Section).
3. The National Academy of Sciences, India (66<sup>th</sup> Annual Session) held at Dr. Babasaheb Ambedkar Marathwada University, Aurangabad from October 31- November 2, 1996 (Presented Research paper at the Section).
4. "FTIR Spectrum of 1-bromo-3-fluoro-4-iodobenzene", 8<sup>th</sup> Conference of the International Academy of Physical Sciences (CONIAPS- VIII), C.C.S. University, Meerut, December 29-31, 2005.
5. National Seminar on "Environment & Human Concern", D.N. College, Meerut, February 17, 2008.
6. National Symposium / Workshop on New Trends of Biosensor Technology (NSNTBT), Hindustan College of Science & Technology, Farah, Mathura, 17<sup>th</sup> -19<sup>th</sup> January, 2009.

7. National Workshop on IPR- Awareness, C.C.S. University, Meerut, April 24-25, 2009.
8. National Symposium on Lasers & their Applications, Physics Department, C.C.S. University, Meerut (U.P.), September 12, 2009.
9. "Structural Studies and Ab initio, Density Functional Theory of 2,6-diamino-3-nitroso pyridine", National Conference on Recent Trends in the Advancement of Astronomy and Applied Mathematics, Department of Mathematics, S.S.G.R. (PG) College, Dehradun, 14-15 November, 2009.
10. 2<sup>nd</sup> National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences. D.N.College, Meerut, 30-31 January, 2010.
11. 3<sup>rd</sup> National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences. D.N.College, Meerut, 5-6 February, 2011.
12. National Conference on "Advancement of Nano Materials and its Applications", Department of Physics, D.A.V. College, Kanpur, 15-16 February 2011.
13. Annual Conference of Vijnana Parishad of India and The Global Society of Mathematical & Allied Sciences, Shobhit University, Meerut, March 24-26, 2011.
14. National Workshop on "Advancement of Nano Materials and its Applications", D.A.V. College, Department of Physics, Kanpur, 09-11 February 2012.
15. National Seminar on Recent Trends in Advancement of Mathematical and Physical Sciences. D.N. College, Meerut, 17-18 March, 2012.
16. 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.
17. "Experimental & Theoretical Vibrational Spectroscopic Studies of Substituted Quinolines", National Conference on Emerging Trends of Science &Technology-2013, Monad University, Hapur, 9<sup>th</sup> November, 2013.

#### List of Text Books of Physics

1. Mechanics
2. Electricity and Magnetism
3. Optics
4. Thermal Physics
5. Modern Physics
6. Solid State
7. Electronics
8. Quantum Mechanics
9. Relativity and Statistical Physics

#### Lecture Delivered & Session Chaired

**Chairperson:** Technical session of National Conference on Recent Trends in the Advancement of Astronomy and Applied Mathematics, Department of Mathematics, S.S.G.R. (PG) College, Dehradun, 14-15 November, 2009.

**Organizing Secretary:** National Seminar in Physical Sciences Organised by D.N. College, Meerut, December, 2006.

#### Training Programme Attended

Training Programme on "System Design, Operation, Maintenance and Repair of Solar Photovoltaic Systems"  
By- Solar Energy Centre, Ministry of Non-Conventional Energy Sources, Government of India, New Delhi  
Place- Physics Department, N.A.S College, Meerut  
Duration- February 2-6, 2006.

### **Details of Refresher course / Orientation course attended**

1. Refresher course in Physics sponsored by University Grants Commission, New Delhi during 5<sup>th</sup> -25<sup>th</sup> December, 1994 at C.C.S. University, Meerut.
2. Refresher course in Physics sponsored by University Grants Commission, New Delhi during 10<sup>th</sup> April to 9<sup>th</sup> May, 2001 at Aligarh Muslim University, Aligarh.
3. Refresher course in Physics sponsored by University Grants Commission, New Delhi during 22<sup>nd</sup> August to 11<sup>th</sup> September, 2001 at Aligarh Muslim University, Aligarh.
4. Refresher course in Physics sponsored by University Grants Commission, New Delhi during 7<sup>th</sup> -28<sup>th</sup> December, 2001 at C.C.S. University, Meerut.

### **Professional Societies Memberships**

Life member- Indian Science Congress  
Life Member- NGO- Safe Foods  
Member Executive Committee- D.N. Polytechnic, Meerut  
Member Executive Committee- S.S.R. Degree College, Daurala

### **Contribution in other various activities**

1. Worked as Proctor from 1993 to 2003.
2. Chief Proctor since December 2003.
3. Worked as Games Superintendent from 1997 to 1998.
4. Managing Editor, College Magazine.
5. Building Incharge of college.
6. Deputy Co-ordinator, IGNOU Study center-2799, D.N. College, Meerut since 2003.
7. Co-ordinator, Evening Classes of Science Group, D.N. College, Meerut.
8. Convener, Admissions of Science Classes, D.N. College, Meerut.
9. Chairman, Student Union, D.N. College, Meerut.
10. Chairman, Anti-Ragging Cell, D.N. College, Meerut.
11. Chairman, Student Grievances Cell, D.N. College, Meerut.
12. Secretary, NAAC Steering Committee, D.N. College, Meerut.
13. Member of Sports and Games Committee, D.N. College, Meerut.
14. Worked as Secretary, Teacher,s Association, D.N. College, Meerut for last 5 years.
15. Worked as Assistant Superintendent of Examinations of C.C.S. University, Meerut.
16. Worked as Deputy Controller and Assistant Controller at Evaluation Center of C.C.S. University, Meerut.
17. Member of Counseling Cell D.N. College, Meerut.
18. Approved Counselor of Indira Gandhi National Open University, New Delhi.
19. Worked and presently working as Paper Setter of Under Graduate, Post Graduate Classes of various University in India.
20. Guest Faculty Member of different institutes.
21. Worked and presently working as Prof-Incharge, BOSE PHYSICAL SOCIETY, D.N. College, Meerut.
22. Worked as Examination Superintendent of DOEACC (Central Government).

