

Curriculum-Vitae

Dr. Aditya Saxena
Associate Professor and Head
Department of Physics
Central University of Haryana
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Department of Physics
Deshbandhu College
University of Delhi
Kalkaji
New Delhi-110019

Personal Information:

Father's Name: Late Sh. Ajit Kumar Saxena

Mother's name: Smt. Kanak Saxena

Date of Birth: 19th November 1976

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Academic Qualifications:

- **Ph.D. in Physics** from **University of Delhi**, Degree awarded in March 2005.
- **Masters in Physics** from **Ramjas College, University of Delhi** (1998) with first division (61.7%).
- **B.Sc. (Hons.) in Physics** from **Ramjas College, University of Delhi** (1996) with first division (68.9%).

Brief Profile:

I have been teaching different papers in Physics since 2004 to both undergraduate and postgraduate students. I have been involved in development of structure, scheme, syllabi and delivery mechanism including online e-content and audio-video modules in various capacities since 2012. I have served for three years in Institute of Life Long Learning where as Fellow (Special Projects) Physics I was responsible for creation of online e-content for the Undergraduate Courses in Physics of Delhi University. Since then I have been associated with different schemes of University Grants Commission, Ministry of Human Resource Development, e-PG Pathshala NME-ICT, Consortium for Educational Communication, NCERT, Delhi University and Central University of Haryana. Through these associations I have made contributions in the field of Physics Education right from the Secondary level to Post Graduate level in different areas of virtual learning, e-learning, online-learning, MOOC's and capacity building. My significant contributions, personal and work profile and other professional roles are elaborated below.

Contribution to Development Activities for Educational Communication and/or similar endeavors towards Quality, Access and Innovation in Education:

(a) **Subject Matter Expert (SME)** for NME-ICT project e-PG Pathshala in Physics for the papers 'Quantum Mechanics' and 'Electromagnetic Theory'

(b) **List of Edited e-Books of Dr. Aditya Saxena hosted on www.vle.du.ac.in (Institute of Life Long Learning, University of Delhi)**

1. *Thermal Physics*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-81-931455-8-6
2. *Digital Electronics*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-81-931455-9-3
3. *Mechanics*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-79-7
4. *Oscillations and Waves*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-81-0
5. *Electricity and Magnetism*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-82-7
6. *Mathematical Physics-I*, (Institute of Life Long Learning (ILLL), India, 2015)

- Sole Editor: Aditya Saxena. ISBN: 978-93-85611-78-0
7. *Mathematical Physics-II*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-80-3
 8. *Mathematical Physics-III*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-83-4
 9. *Microprocessor and Computer Programming*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-84-1
 10. *Optics*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-85-8
 11. *Numerical Analysis*, (Institute of Life Long Learning (ILLL), India, 2015) Sole Editor: Aditya Saxena. ISBN: 978-93-85611-86-5
 12. *Discrete Structures*, (Institute of Life Long Learning (ILLL), India, 2015) Co-Editor: Aditya Saxena. ISBN: 978-93-85611-38-4
 13. *Data Structures*, (Institute of Life Long Learning (ILLL), India, 2015) Co-Editor: Aditya Saxena. ISBN: 978-93-85611-39-1

(c) **Editorial Board of Journals**

1. *Journal of NanoScience, NanoEngineering & Applications*, (STM Journals, Noida, India) 2014-2015, Editor-in-Chief: Aditya Saxena. ISSN: ISSN 2231-1777
2. *OmniScience: A Multi-disciplinary Journal*, (STM Journals, Noida, India) 2011-2015, Editor: Aditya Saxena. ISSN: 2231-0398
3. *Journal of NanoScience, NanoEngineering & Applications*, (STM Journals, Noida, India) 2011-2014, Editor: Aditya Saxena. ISSN: ISSN 2231-1777

Professional Development Activities and Academic Committees

- **Member**, National Task Force on PG MOOCs Content, University Grants Commission (UGC)
- **Member Expert in Physics** of the UGC constituted committee for Choice Based Credit System (CBCS) at Undergraduate Level
- **Member** UGC Committee for the API Scores, UGC
- **Member** Implementation and Monitoring Committee for MOOCs Content, Consortium for Educational Communication (CEC), UGC
- **Member** Committee for Services of Media Centres in e-content development for PG subjects under e-PG Pathshala, Consortium for Educational Communication (CEC), UGC
- **Participant** as Director and Coordinator, Deen Dayal Upadhyay Kaushal Kendra, Central University of Haryana, Australia-India Vocational Leadership Training Program, 21-23 November, 2016 organized by Ministry of Skill Development and Entrepreneurship in association with UGC and AICTE.
- **Resource Person** National Workshop on Choice Based Credit System: Potential and Challenges, 9-11 November, 2016 organized by Association of Indian Universities and Central University of Haryana

- **Resource Person** Capacity Building Workshop on e-Content Creation, 23rd September, 2016, Institute of Life Long Learning, Delhi University
- **Member** Committee for Recording, Storing and Live Viewing of Lectures in Online/Offline mode, Central University of Haryana
- **Expert Participant and Resource Person** in Workshop on Development of Audio-Video Materials on Experiments/Activities in Science at Secondary Stage, 27th June-1st July, 2016, Department of Education in Science and Mathematics, NCERT
- **Resource Person** Training cum Workshop on Development and Delivery of MOOCs, 9-11 March, 2016 organized by Consortium for Educational Communication (CEC), UGC
- **Jury Member** *INSPIRE AWARD National Level Exhibition and Project Competition (NLEPC)- 2016*, December 10-11, 2016 organized by Department of Science and Technology, Government of India.
- **Jury Member** *INSPIRE AWARD National Level Exhibition and Project Competition (NLEPC)- 2015*, December 6-7, 2015 organized by Department of Science and Technology, Government of India.
- **Participant** Consultative Workshop on National Educational Policy 2015-16, 3-5 December, 2015 Department of Higher and Professional Education, National University of Educational Planning and Administration (NUEPA).
- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 23-27th March, 2015.
- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 16-20th February, 2015.
- **Member** Project Appointment Committee for e-PG Pathshala project of NME-ICT, MHRD for setting up Multimedia Lab at ILL, UDSC
- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 26-28th November, 2014.
- **Jury Member** *INSPIRE AWARD National Level Exhibition and Project Competition (NLEPC)- 2014*, October 6-8, 2014 organized by Department of Science and Technology, Government of India.
- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 11-13th August, 2014
- **Resource Person** “*Development of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 10-14th March, 2014.
- **Invited Speaker** on e-Content Development under 4-Quadrant approach for Workshop of Paper Coordinators under e-PG Pathshala in ‘Comparative Literature’.
- **Invited Speaker** on e-Content Development under 4-Quadrant approach for Workshop of Paper Coordinators under e-PG Pathshala in ‘Microbiology’.
- **Invited Speaker** on e-Content Development under 4-Quadrant approach for Workshop of e-content writers under e-PG Pathshala in ‘Russian Studies’.
- **Member** Committee of Courses, Department of Physics and Astrophysics, Delhi University for the academic session 2013-2014

- **Jury Member** *INSPIRE AWARD National Level Exhibition and Project Competition (NLEPC)- 2013*, October 8-10, 2013 organized by Department of Science and Technology, Government of India.
- **Member Organizing Committee** Workshop on “*Intellectual Property Rights*” 21st March, 2013, ILL, UDSC.
- **Jury Member** *INSPIRE AWARD National Level Exhibition and Project Competition (NLEPC)- 2012*, October 21-23, 2012 organized by Department of Science and Technology, Government of India.
- **Resource Person** *INSPIRE Internship Program-2012*, October 1-5, 2012 organized by Deshbandhu College, Delhi University and Department of Science and Technology, Government of India.

Responsibilities and Contribution to Corporate Life:

- **Member**, Building Committee, Central University of Haryana, since 06.12.2016
- **Coordinator**, Deen Dayal Upadhyay Kaushal Kendra, Central University of Haryana, since 17.08.2016
- **Director**, Internal Quality Assurance Cell, Central University of Haryana, since 17.08.2016
- **Local Coordinator**, Central University of Haryana, Global Initiatives of Academic Network (**GIAN**), Ministry of Human Resource Development.
- **Editor-in-Chief**, University Newsletter-2016, Central University of Haryana
- **Editor**, Science Section, University Magazine Aditi-2016, Central University of Haryana
- **Convener**, University Prospectus Committee-2016, Central University of Haryana
- **Convener**, Online Admission Committee-2016, Central University of Haryana
- **Superintendent of Examination**, Semester end Examination May-2016, Department of Physics, Central University of Haryana
- **Member**, Organizing Committee, Annual Cultural Festival-SPANDAN-2016, Central University of Haryana
- **Organizing Secretary**, National Science Day Celebrations-2016, Central University of Haryana
- **Member**, Organizing Committee, University Convocation-2016, Central University of Haryana
- **Superintendent of Examination**, Semester end Examination December-2015, Department of Physics, Central University of Haryana
- **Member**, NAAC Preparatory Committee, Central University of Haryana, for the academic sessions 2015-2017
- **Member**, Academic Council, Central University of Haryana, since October 2015
- **Chairman**, Board of Studies, Department of Physics, Central University of Haryana, since October 2015
- **Chairman**, Departmental Research Committee, Department of Physics, Central University of Haryana, since October 2015
- **Head**, Department of Physics, Central University of Haryana, since October 2015

- **Co-Convener** Antardvani-2015 Organizing Committee, ILLL
- **Member** Antardvani-2014 Organizing Committee, ILLL
- **Member** Antardvani-2013 Organizing Committee, ILLL
- **Member** Purchase Committee, ILLL for the academic session 2012-2014
- **Convener**, Admission, Workload and Planning (AWP) Committee, Deshbandhu College for the academic session 2012-2013.
- **Placement Coordinator** of the Placement Cell, Deshbandhu College for the academic session 2011-2012.
- **Student Advisor** of Physics Seminar Society, Deshbandhu College, for the academic session 2011-12.
- **Student Advisor** of Physics Seminar Society, Ramjas College, for the academic session 2009-10.
- **Member**, Student Information System Committee, Ramjas College, for the academic sessions 2006-07 and 2010-11.
- **Coordinator** for Certificate Course in Forensic Science, Ramjas College, for the academic sessions 2005-06, 2006-07 and 2007-08.
- **Student Advisor** for Electronics Seminar Society, Ramjas College, for the academic session 2006-07.
- **Discipline Incharge**, Ramjas College Hostel, Ramjas College during first three months for the academic sessions 2004-05 and 2005-06.

List of Publications of Dr. Aditya Saxena:

1. 'Generation of Electricity by the Method of Triboelectrification By using Human Hand', *Journal of Central University of Haryana*, (2016). **A Saxena**, N Maharana and B Rana. ISSN: 2348-3377
2. 'Study the properties of single layer BiFeO₃ thin film', *Journal of Central University of Haryana*, (2015). **A Saxena**, N Arya and N Pundir. ISSN: 2348-3377
3. 'Acoustic phonon spectrum of unaligned multi-walled carbon nanotubes and zero phonon Rayleigh Mössbauer scattering', *Indian Journal of Physics*, 89 (2015), 417-423. Co-authors: S.P. Tewari, P. Silotia and S. Dabas. DOI 10.1007/s12648-014-0607-2. ISSN: 0973-1458 (Print) 0974-9845 (Online)
4. 'Investigations on the triboelectric electricity generation and its application in energizing a voltage driven display device', *DU Journal of Undergraduate Research and Innovation* 1 (1) (2015) 49-59. **A Saxena et al.** ISSN 2395-2334
5. 'A Study of Crop Yield pattern with Climate Change based on Physical Parameters: Temperature and Rainfall in Western Uttar Pradesh to make future predictions for better Crop Management and Yield', *DU Journal of Undergraduate Research and Innovation* 1 (1) (2015) 36-48. **A Saxena et al.** ISSN 2395-2334
6. 'On the thermal conductivity of single-walled carbon nanotube ropes', *Soft Nanoscience Letters* 3, (2013) 7-10. Co-authors: S.P. Tewari, P. Silotia and S. Dabas. DOI: 10.4236/sn.l.2013.31002. ISSN Print: 2160-0600 ISSN Online: 2160-0740
7. 'Phonon frequency distribution function and temperature variation of Rayleigh Mossbauer scattering fraction from aligned multiwalled carbon nanotubes', *Journal of Nanophotonics* 05, (2011) 053508 (1-9). Co-authors: S.P. Tewari, P. Silotia and S.

Dabas. doi: 10.1117/1.3590198. E-ISSN: 1934-2608

8. 'Phonon frequency distribution function in aligned multi-walled carbon nanotubes', *Proc. Of SPIE* 7761, (2010) 77610T (776130) (1-10). Co-authors: S.P. Tewari, P. Silotia and S. Dabas. doi: 10.1117/12.867993. ISSN Proceedings of SPIE: 0277-786X
9. 'On the excess specific-heat of single-walled carbon-nanotube ropes due to the adsorption of helium atoms in the temperature range 2-20 K', *Journal of Nanophotonics* 02, (2008) 023503 (1-7). Co-authors: S.P. Tewari, P. Silotia and S. Dabas. doi:10.1117/1.2896048. E-ISSN: 1934-2608
10. 'Vortices of the Bose-Einstein condensate in the presence of higher order energy corrections including three-body interactions for large values of gas parameter', *Solid State Communications* 143, (2007) 337. Co-authors: S. P. Tewari, P. Silotia and L.K.Gupta. doi:10.1016/j.ssc.2007.05.031. ISSN: 0038-1098
11. 'Variation of the ground state properties of trapped Bose-Einstein condensate due to localized impurity', *Proc. Of SPIE* 6710, (2007) 671016 (1-11). Co-authors: S.P. Tewari, P. Silotia and L.K.Gupta. doi: 10.1117/12.733809. ISSN Proceedings of SPIE: 0277-786X
12. 'Effect of three-body interaction in strongly interacting Bose-Einstein condensate in isotropic and highly anisotropic magnetic trap', *Indian Journal of Pure and Applied Physics*, 45, 173 (2007). Co-authors: S. P. Tewari, P. Silotia and L.K.Gupta. ISSN: 0019-5596
13. 'Effect of incorporating three-body interaction in the low-density energy expansion of Bose-Einstein condensate of ^{87}Rb atoms trapped in a harmonic potential', *Physics Letters A*, 359, 658 (2006). Co-authors: S. P. Tewari, P. Silotia and L.K.Gupta. doi:10.1016/j.physleta.2006.07.027. ISSN: 0375-9601
14. 'Effect of higher order energy corrections including three-body interaction of the Bose-Einstein condensate with the variation of repulsive self interaction energy', *Int. J of Mod. Phys. B.*, 20, (2006) 1690. Co-authors: S.P.Tewari, Poonam Silotia and L.K.Gupta. DOI: 10.1142/S0217979206034224. Print ISSN: 0217-9792 Online ISSN: 1793-6578
15. 'Dimensionality effects on the strongly interacting Bose-Einstein condensate with three-body interactions', *Complex Mediums VI: Light and Complexity, Proceedings of SPIE*, 5924, (2005) 592416. Co-authors: S.P.Tewari, Poonam Silotia and L.K.Gupta. doi: 10.1117/12.618739. ISSN Proceedings of SPIE: 0277-786X
16. 'Dynamical modes of a graphite surface-top and the middle- by unfolding the observed temperature dependent displacement-displacement auto-correlation function', *Physica B.*, 355, (2005) 264 Co-authors: S.P.Tewari and Poonam Silotia. doi:10.1016/j.physb.2004.11.003.ISSN: 0921-4526
17. 'General expression of chemical potential for Bose-Einstein condensate in an anisotropic magnetic trap', *Quantum Communications and Quantum Imaging, Proc. of SPIE*, 5161, (2003) 220. Co-authors: S.P.Tewari and Poonam Silotia. doi: 10.1117/12.512323. ISSN Proceedings of SPIE: 0277-786X
18. 'Energy dependent total thermal neutron scattering cross-section and transport of a neutron pulse in fullerite at 300 K' *Nanotubes and Nanowires, Proc. of SPIE*, 5219, (2003) 117. Co-authors: S.P.Tewari, Poonam Silotia and Kakoli Bera. doi: 10.1117/12.505772. ISSN Proceedings of SPIE: 0277-786X

19. 'Ground state properties of Bose-Einstein condensate of ^{87}Rb atoms in an isotropic magnetic trap for different total number of atoms in the condensate ranging from 10^2 to 5×10^6 ', *Indian J of Pure and Appl. Phys.*, 41, (2003) 905. Co-authors: S.P.Tewari and Poonam Silotia. ISSN: 0019-5596
20. 'Frequency distribution function of phonons in different layers of graphite', *Indian J of Pure and Appl. Phys.*, 41, (2003) 707. Co-authors: S.P.Tewari and Poonam Silotia. ISSN: 0019-5596

Seminar and Conference Presentations of Dr. Aditya Saxena:

1. 'Phonon frequency distribution function in aligned multi-walled carbon nanotubes', presented at SPIE Conference on Carbon Nanotubes, Graphene, and Associated Devices III (01-05 August, 2010) *San Diego, California, USA*. Co-authors: S. P. Tewari, Poonam Silotia and Seema Dabas.
2. 'Variation of the ground state properties of trapped Bose-Einstein condensate due to localized impurity', presented at SPIE Conference on Quantum Communications and Quantum Imaging V (26-30 August, 2007) *San Diego, California, USA*. Co-authors: S. P. Tewari, Poonam Silotia and Lokesh Kumar Gupta.
3. 'On the excess specific heat of single-wall carbon nanotube ropes due to the adsorption of helium atoms in the temperature range 2-20K', presented at SPIE Conference on Nanocoatings (26-30 August, 2007) *San Diego, California, USA*. Co-authors: S. P. Tewari, Poonam Silotia and Seema Dabas.
4. 'Dimensionality effects on the strongly interacting Bose-Einstein condensate with three-body interactions', presented at 'Conference on Complex Mediums VI: Light and Complexity, SPIE Symposium on Optics & Photonics', (31 July - 4 August, 2005) *San Diego, California, USA*. Co-authors: S.P.Tewari, Poonam Silotia and Lokesh Kumar Gupta.
5. 'Effect of higher order energy corrections including three-body interaction on the Bose-Einstein condensate with the variation of repulsive self interaction energy', accepted for poster presentation at '9th International Conference on Squeezed States and Uncertainty Relations ICSSUR-05', (2 - 6 May, 2005), Besancon, France. Co-authors: S.P.Tewari, Poonam Silotia and Lokesh Kumar Gupta.
6. 'Cross-over of strongly interacting Bose-Einstein condensate from three-dimension to quasi one-dimension in the presence of three body interactions' presented at 'STATPHYS - KOLKATA V - An International Conference on: Complex networks: Structure, functions and processes' (27 June-1 July, 2004), Kolkata. Co-authors: S.P.Tewari, Poonam Silotia and Lokesh Kumar Gupta.
7. 'Cross-over of three dimensional Bose-Einstein condensate to Quasi two-dimension', accepted for presentation at 'Euresco Conference on Bose-Einstein Condensation' (13-18 Sept., 2003), Spain. Co-authors: S.P.Tewari and Poonam Silotia.
8. 'General expression for chemical potential of Bose-Einstein condensate in an anisotropic magnetic trap', presented at 'SPIE Conference on Quantum Communications and Quantum Imaging' (6- 8 Aug., 2003), San Diego, California, U.S.A. Co-authors: S.P.Tewari and Poonam Silotia.
9. 'Energy dependent total thermal neutron scattering cross-section and transport of a

- neutron pulse in fullerite at 300K' presented at 'SPIE Conference on Nanotubes and Nanowires' (3- 4 Aug., 2003), San Diego, California, U.S.A. Co-authors: S.P.Tewari, Poonam Silotia and Kakoli Bera.
10. 'Crossover of three dimensional Bose-Einstein condensate to quasi-one dimension', accepted for presentation at 'Workshop on Bose-Einstein Condensation and Quantum Information (BECQI' 03)' (16 - 20 Feb., 2003), Caloundra, Sunshinecoast, Australia. Co-authors: S.P.Tewari and Poonam Silotia.
 11. 'Dynamics of carbon atom at the (0001) graphite surface using unfolding technique' accepted for presentation at 'International Conference on Applications of Mossbauer Effect (ICAME-2001)' (2 -7 Sept., 2001), Oxford University, Oxford, U.K. Co-authors: S.P.Tewari and Poonam Silotia.
 12. 'Coherence length of Bose-Einstein condensate for different total number of Rb - 87 atoms using realistic condensate wave function' presented at '7th international Conference on Squeezed States and Uncertainty Relations ICSSUR - 2001)' (4 - 8 June, 2001), Boston University, Boston, U.S.A. Co-authors: S.P.Tewari and Poonam Silotia.
 13. 'Dynamics of carbon in different layers of graphite' presented at National Conference on 'Recent Developments in Disordered Materials' (15 - 16 March, 2001), Deptt. Of Physics, Center for Advanced Study in Physics, Panjab University, Chandigarh , India. Co-authors: S.P.Tewari and Poonam Silotia.

Research Projects of Dr. Aditya Saxena:

1. "A Study of Crop Yield pattern with Climate Change based on various Physical Parameters like Temperature, Rainfall, Humidity, Greenhouse Gases Emission, etc. in Western Uttar Pradesh to make future predictions for better Crop Management and Yield" DBC-205, Principal Investigator, 2013-15 (One and Half Year) Funding Agency: Delhi University (Project Cost: Rs. 5.00 Lakhs)
2. "Generation of electrical energy by nonconventional methods to operate low power devices" DBC-202, Mentor, 2013-15 (One and Half Year) Funding Agency: Delhi University (Project Cost: Rs. 5.00 Lakhs)

Faculty Recharge and Training Programs:

- **14th Refresher Course in Physics**, UGC-ASC, Jawaharlal Nehru University 22nd September-17th October, 2014. Grade: A
- **101st four week Orientation Program**, UGC-ASC, Jamia Millia Islamia University 16th July-13th August, 2012. Grade: A

Teaching History:

- Teaching M.Sc. Physics students at Central University of Haryana, Mahendergarh, Haryana since 18th September, 2015 as **Associate Professor**.
- Teaching B.Sc. (Hons.) Physics and B.Sc. (Prog.) Physical Science and Applied Physical Science students at Deshbandhu College, University of Delhi, from 1st September, 2015 to 18th September, 2015 as **Assistant Professor**.
- On deputation as **Fellow Special Projects (Physics)**, Institute of Life Long Learning, South Campus, University of Delhi from 26th October, 2012 to 31st August, 2015 and involved in e-content creation for the undergraduate courses of Delhi University.
- Teaching B.Sc. (Hons.) Physics and B.Sc. (Prog.) Physical Science and Applied Physical Science students at Deshbandhu College, University of Delhi, from 3rd September, 2010 to 26th October, 2012 as **Assistant Professor**.
- Taught B.Sc. (Hons.) Physics and B.Sc. (Prog.) Physical Science and Applied Physical Science students at Ramjas College, University of Delhi, from 16th July, 2004 to 3rd September, 2010 as **Assistant Professor**.
- Taught B.Sc. (Hons.) Electronics (Part-I) and B.Sc.(G) Group-A and Electronics (Part-I) students at SGTB Khalsa College, University of Delhi, for three and half months (1st August 2003 -18th November 2003) as an **Ad-hoc Lecturer**.
- Taught B.Sc. (Gen.) (Part-II) students as **Guest Lecturer** in Swami Shradhdhanand College, University of Delhi, for one month (09.02.2001-12.03.2001).

Achievements and Awards:

- **Teaching Excellence Award for Innovation** by Delhi University, 2015
- **Certificate of Appreciation for Best Innovative Idea for Innovation Project DBC-205** entitled 'A Study of Crop Yield pattern with Climate Change based on various Physical Parameters like Temperature, Rainfall, Humidity, Greenhouse Gases Emission, etc. in Western Uttar Pradesh to make future predictions for better Crop Management and Yield' as its **PI** by Delhi University, 2015
- Awarded **CSIR-UGC SRF** in Jan. 2002.
- Qualified **CSIR-UGC NET** in June 1999.
- Awarded **certificate of excellence** in Paper-Reading competition held at 'Vidyut-95' Miranda House, University of Delhi.
- Awarded **3rd prize** in Paper-Reading competition held at 'Vidyut-94' Miranda House, University of Delhi.
- Awarded **3rd prize** in Debate competition held at Deen Dayal Upadhyaya College, University of Delhi.
- Awarded **Best Prefect Award** for the Academic Session 1992-1993 at Kendriya Vidyalaya, Sec-VIII, R.K.Puram, New Delhi.
- Was the **House Captain** of Nehru House for the Academic Session 1992-1993 at Kendriya Vidyalaya, Sec-VIII, R.K.Puram, New Delhi.

Fellowships and Research History:

- Availed Senior Research Fellowship (**SRF**) awarded by **CSIR**, New Delhi, from 01-01-2002 to 16-07-2004, being a Research Scholar in the Department of Physics and Astrophysics, University of Delhi, Delhi-110007 (excluding the periods, 1st August – 18th November 2003, being on the leave taken for teaching purpose).

Title of Ph.D. Thesis:

Ground State Properties Of Bose-Einstein Condensate Of Different Assemblies Of Gaseous Bosonic Atoms Confined In An Anisotropic And Isotropic Magnetic Trap In The Presence Of Two-Body And Three-Body Interactions.

Name of supervisors:

1. Prof. S. P. Tewari

2. Dr. Poonam Silotia