




DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

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|---|--|------------|--------|-----------|--------|---|
| Title | Dr. | First Name | Aditya | Last Name | Saxena | Photograph |
| Designation | Assistant Professor | | | | |  |
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| Educational Qualifications | | | | | | |
| Degree | Institution | | | | Year | |
| PhD | University of Delhi | | | | 2005 | |
| PG | | | | | 1998 | |
| UG | Ramjas College, University of Delhi | | | | 1996 | |
| III Publications:- | | | | | | |
| (a)List of Research Publications | | | | | | |
| Total number of publications (20) | | | | | | |
| h-index: 4; i10-index: 1;Total Citations: 34(Source: Google Scholar) | | | | | | |
| <ol style="list-style-type: none"> 1. 'Generation of Electricity by the Method of TriboelectrificationBy using Human Hand', <i>Journal of Central University of Haryana</i>, (2016). A Saxena, N Maharana and B Rana. ISSN: 2348-3377 2. 'Study the properties of single layer BiFeO₃ thin film', <i>Journal of Central University of Haryana</i>, (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', <i>Indian Journal of Physics</i>, 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', <i>DU Journal of Undergraduate Research and Innovation</i> 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.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 ⁸⁷Rb 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, PoonamSilotia 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 PoonamSilotia. 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 PoonamSilotia. 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, PoonamSilotia and KakoliBera. 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 PoonamSilotia. 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 PoonamSilotia. ISSN: 0019-5596**

(b)List of Edited Books

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

(c) List of Chapters in Edited Books

1. **‘Dynamics of carbon in different layers of graphite’, *Disordered Materials*, (Narosa, India, 2003), Chapter 21, Page 126. Co-authors: S.P.Tewari and Poonam Silotia. ISBN:978-81-7319-463-4**

(d) Seminar and Conference Presentations

1. **‘Effect of thin film electrode on the voltage generation of Triboelectric generator’, presented at **International Conference on Physics, Society and Technology** (17-19 January, 2019), *Delhi University, Delhi, India*.**
2. **‘Research, Innovation and Information and Communication Technology: The three pillars in scripting a new paradigm in Teaching’, presented at **International Seminar on Governance of Universities: Issues and Challenges**(23-24 March, 2017), Department**

of Higher and Professional Education, *National University of Educational Planning and Administration (NUEPA) New Delhi, India*.

3. **'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.
4. **'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.
5. **'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.
6. **'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.
7. **'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.
8. **'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.
9. **'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.
10. **'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.
11. **'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.
12. **'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.
13. **'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.
14. **'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 PoonamSilotia.

15. **'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 PoonamSilotia.

IV Research Profile:-

(a) Research Projects

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)

(b) Research Supervision

1. M.Sc. Dissertation Thesis of Mr. Sanjaya Kumar Barikentitled **"Study of Ground State Properties of Bose-Einstein Condensate of ^{84}Sr and effect of including different energy terms in the Hamiltonian, on these properties"**; Department of Physics, Central University of Haryana, June 2019: **Supervisor**
2. M.Sc. Dissertation Thesis of Mr. Arvind Kumar entitled **"Effect of change in Anisotropy and Scattering Length in the Ground State Properties of Bose-Einstein Condensate of ^{174}Yb "**; Department of Physics, Central University of Haryana, June 2019: **Supervisor**
3. M.Sc. Dissertation Thesis of Mr. DalipSaini entitled **"Dynamics of Graphite and Carbon Nanotubes"**; Department of Physics, Central University of Haryana, June 2018: **Supervisor**
4. M.Sc. Dissertation Thesis of Ms. Priya entitled **"Electronic Properties of Thermoelectric Transition Metal Silicides"**; Department of Physics, Central University of Haryana, June 2018: **Co-Supervisor**
5. M.Sc. Dissertation Thesis of Ms. NishaYadav entitled **"Effect of thin film electrode on the voltage generation of Triboelectric generator"**; Department of Physics, Central University of Haryana, June 2017: **Supervisor**
6. M.Sc. Dissertation Thesis of Ms. SudhaKumari entitled **"Demonstration of voltage generation of Triboelectric generator using PTFE and Nylon"**; Department of Physics, Central University of Haryana, June 2017: **Supervisor**
7. M.Sc. Dissertation Thesis of Mr. PankajBharti entitled **"Investigation of Triboelectric generator using PTFE sheet and Plywood"**; Department of Physics, Central University of Haryana, June 2017: **Supervisor**
8. M.Sc. Dissertation Thesis of Mr. JohnyAttri entitled **"Demonstration of single electrode TEG and double electrode TEG and parameters affecting TEG"**; Department of Physics, Central University of Haryana, June 2017: **Supervisor**
9. M.Sc. Dissertation Thesis of Ms. Parul entitled **"Study of output voltage of Triboelectric generator using PTFE and Human hand"**; Department of Physics, Central University of Haryana, June 2017: **Supervisor**
10. M.Sc. Dissertation Thesis of Mr. SubhajitChatterjee entitled **"Stress dependent studies on**

pulsed LASER deposited ZnO thin films”; Department of Physics, Central University of Haryana, June 2017: **Supervisor**

11. M.Sc. Dissertation Thesis of Mr. Deepak Kumar Yadav entitled “**Structural and optical studies of Zinc Oxide thin films grown at different substrate temperatures**”; Department of Physics, Central University of Haryana, June 2017: **Supervisor**

VEditorial Board of Journals

1. *Journal of NanoScience, NanoEngineering & Applications*, (STM Journals, Noida, India) 2014-2019, Editor-in-Chief: Aditya Saxena. eISSN: 2231-1777, ISSN: 2321-5194
2. *OmniScience: A Multi-disciplinary Journal*, (STM Journals, Noida, India) 2011-2019, Editor: Aditya Saxena. eISSN: 2231-0398, ISSN: 2347-9949
3. *Journal of NanoScience, NanoEngineering & Applications*, (STM Journals, Noida, India) 2011-2014, Editor: Aditya Saxena. eISSN: 2231-1777, ISSN: 2321-5194

VIProfessional Development Activities and Academic Committees:-

- **Member**, UGC Draft Regulation Committee for **UGC Regulations on Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges and Measures for Maintenance of Standards in Higher Education 2018**, UGC, New Delhi
- **Member Expert in Physics** of the UGC constituted committee for Choice Based Credit System (CBCS) at Undergraduate Level
- **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
- **Resource Person, Talk on CBCS**, Maharishi Dayanand University, Rohtak April 15, 2019.
- **Resource Person**, one week Workshop on “**Professional Development and Capacity Building of Teachers of Higher Education Institutions**” organized by **School of Education, Central University of Haryana** (under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching) in collaboration with **Haryana State Higher Education Council**, March 11-18, 2019 (March 15, 2019).
- **Resource Person**, Workshop for Development Of Modules of Training Package in Physics for Teachers Teaching at Higher Secondary Stage in online format, DESM, NCERT, 11th-15th March, 2019.
- **Resource Person**, Workshop for Development Of Modules of Training Package in Physics for Teachers Teaching at Higher Secondary Stage in online format, DESM, NCERT, 18th-22nd February, 2019.

- **Jury Member** *INSPIRE AWARD-MANAK, 7th National Level Exhibition and Project Competition (NLEPC)*, February 14, 2019 organized by Department of Science and Technology, Government of India.
- **Resource Person**, Workshop for Development Of Modules of Training Package in Physics for Teachers Teaching at Higher Secondary Stage in online format, DESM, NCERT, 24th-28th December, 2018.
- **Resource Person**, Workshop for Development Of Audio-Video Material on Experiments/Activities in Science at Secondary Stage, DESM, NCERT, 5th-9th March, 2018.
- **Resource Person**, Workshop for Development Of Audio-Video Material on Experiments/Activities in Science at Secondary Stage, DESM, NCERT, 11th-15th December, 2017.
- **Resource Person**, Workshop for Development Of Audio-Video Material on Experiments/Activities in Science at Secondary Stage, DESM, NCERT, 29th May-2nd June, 2017.
- **Resource Person**, Workshop for Development Of Audio-Video Material on Experiments/Activities in Science at Secondary Stage, DESM, NCERT, 27th-31st March, 2017.
- **Jury Member**, *INSPIRE AWARD 6th National Level Exhibition and Project Competition (NLEPC)*, December 10-11, 2016 organized by Department of Science and Technology, Government of India.
- **Resource Person**, Workshop for Development Of Audio-Video Material on Experiments/Activities in Science at Secondary Stage, DESM, NCERT, 27th June-1st July, 2016.
- **Resource Person**, Orientation of Key Resource Persons (KRPs) in Physics at Higher Secondary Stage, DESM, NCERT, 15-19th February, 2016.
- **Jury Member**, *INSPIRE AWARD 5th National Level Exhibition and Project Competition (NLEPC)-2015*, December 6-7, 2015 organized by Department of Science and Technology, Government of India.
- **Resource Person**, One Day Workshop for PGTs in Physics, Kendriya Vidyalaya Sangathan, Delhi Region, 31th August, 2015.
- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 23-27th March, 2015.
- **Member Organizing Committee** Workshop on “*Reproductive biology of Angiosperms*” 16th-17th March 2015.

- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 16-20th February, 2015.
- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 09-13th March, 2015.
- **Resource Person** “*Field Trial of Training Package in Physics at higher Secondary Level*”, DESM, NCERT, 26-28th November, 2014.
- **Jury Member**, *INSPIRE AWARD 4th 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
- **Member Organizing Committee** “*Biology and Technology of Cultivable Mushrooms*” 18-19th February, 2014.
- **Jury Member**, *INSPIRE AWARD 3rd 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** Lecture by Dr Pradip Bhatnagar, President Daiichi Sankyo Life Sciences Research Center, India on “*Opportunities in Drug Discovery*” 22nd March, 2013, ILL, UDSC.
- **Member Organizing Committee** Workshop on “*Intellectual Property Rights*” 21st March, 2013, ILL, UDSC.
- **Jury Member**, *INSPIRE AWARD 2nd 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.

VII Responsibilities and Contribution to Corporate Life:-

- **Member**, Purchase Committee 2019-20, Deshbandhu College, University of Delhi
- **Member**, Extension Lecture Committee 2019-20, Deshbandhu College, University of Delhi
- **Co-Convener**, International Conference on Physics, Society and Technology, Department of Physics, Deshbandhu College, University of Delhi, Delhi, India, 17.01.2019-19.01.2019
- **Coordinator**, DeenDayalUpadhyayKaushal Kendra, Central University of Haryana, 17.08.2016-30.11.2018
- **Director**, Internal Quality Assurance Cell, Central University of Haryana, 17.08.2016-30.11.2018
- **Member**, Academic Council, Central University of Haryana, October 2015-July 2018
- **Dean**, School of Physical And Mathematical Sciences, Central University of Haryana, April 2018-July 2018
- **Head**, Department of Physics, Central University of Haryana, since October 2015-July 2018
- **Local Coordinator**, Central University of Haryana, Global Initiatives of Academic Network (GIAN), MHRD, December 2015-November 2018
- **Chairperson**, Grievance Redressal Committee, Central University of Haryana, 13.12.2017- July 2018
- **Member**, Unnat Bharat Abhiyan Cell, Central University of Haryana, 20.07.2017-30.11.2018
- **Convener**, Implementation of the Campus and Wi-Fi Project, Central University of Haryana, 08.02.2017-30.11.2018
- **Member**, Monitoring Committee of Building Committee, Central University of Haryana, 08.03.2017-30.11.2018
- **Member**, Building Committee, Central University of Haryana, 06.12.2017-30.11.2018
- **Coordinator**, Central Admission Advisory Committee-2018, Central University of Haryana

- **Member**, Central Library Purchase Committee, Central University of Haryana, 06.12.2017-30.11.2018
- **Member**, Committee for Preparation of Reservation Roster for Teaching Positions-2018, Central University of Haryana
- **Superintendent of Examination**, Department of Physics, Semester end Examination May-June-2018, Department of Physics, Central University of Haryana
- **Superintendent of Examination**, Department of Physics, Semester end Examination December-2017, Department of Physics, Central University of Haryana
- **Superintendent of Examination**, Department of Physics, Semester end Examination May-June-2017, Department of Physics, Central University of Haryana
- **Superintendent of Examination**, Department of Physics, Semester end Examination December-2016, Department of Physics, Central University of Haryana
- **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**, Department of Physics, 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**, Department of Physics, 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
- **Co-Convener** Antardvani-2015 Organizing Committee, ILL
- **Member** Antardvani-2014 Organizing Committee, ILL
- **Member** Antardvani-2013 Organizing Committee, ILL

- **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.

VIII Faculty Recharge and Training Programs:-

- Annual Refresher Programme in Teaching (**ARPIT**) through **SWAYAMMOOC's** Course **Personal Emotional Development and Counselling**, 1st November, 2018-28th February, 2019. Score: 75/100, Grade: B
- **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

IX Teaching History:-

- Teaching B.Sc. (Hons.) Physics and B.Sc. (Prog.) Physical Science and Applied Physical Science students at Department of Physics, Deshbandhu College, University of Delhi, since 1st December, 2018 as **Assistant Professor**.
- Teaching M.Sc. Physics students at Department of Physics, Central University of Haryana, Mahendergarh, Haryana, 18th September, 2015 to 30th November, 2018 as **Associate Professor**.

- Teaching B.Sc. (Hons.) Physics and B.Sc. (Prog.) Physical Science and Applied Physical Science students at Department of Physics, 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 Department of Physics, 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 Department of Physics, 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 Department of Physics and Electronics, 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 Shraddhanand College, University of Delhi, for one month (09.02.2001-12.03.2001).

XAchievements 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 DeenDayalUpadhyaya College, University of Delhi.
- Awarded **Best Prefect Award** for the Academic Session 1992-1993 at KendriyaVidyalaya, 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.

XI Fellowships:-

- 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).

Dr. Aditya Saxena