

CURRICULUM VITAE

Dr. Anuj Kumar Agarwal

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OBJECTIVE:

Seeking for dynamic administrative and academic leadership position, in an academically focused organization where I can contribute my knowledge, experience and skills for the growth of organization.

Academic Qualification:

- **Ph.D.** (Plasma Physics), D.A.V.V. University, Indore (Awarded: 10 August 2005).
Work Place: Institute for Plasma Research, An autonomous body under D.A.E.
Thesis Title: *Experimental studies in strongly coupled dusty plasma.*
- **Master of Science** (Physics), 1996, 69.2%
Rohilkhand University, Hindu College, Moradabad, India.
- **Bachelor of Science** (Physics, Chemistry, Mathematics), 1994, 79.6%
Rohilkhand University, Hindu College, Moradabad, India.
- **Intermediate**, 1991, 75.4%; U.P. Board, Allahabad, India.
- **High School**, 1989, 69.7%; U.P. Board, Allahabad, India.

Teaching/Research/Administrative Experience:

Over 25 years experience in teaching, research and administrative, which includes –

- Principal – Government Degree College, Jewar, 02 Oct. 202 till date.
- Associate Professor – Faculty of Engineering, Teerthankar Mahaveer University, Moradabad, 17 Feb. 2012 – 19 Feb. 2022.
- Associate Professor – Maharaja Agarsain Institute of Technology, Pilkhuwa, Ghaziabad, 15 July 2011 – 12 Feb. 2012.
- Assistant Professor – Moradabad Institute of Technology, Moradabad, 10 Jan. 11 – 30 June 2011.

- *Assistant Professor and HOD* – College of Engineering, Teerthankar Mahaveer University, Moradabad, 08 Aug. 2009 – 04 Oct. 2010.
- *Lecturer* – Birla Institute of Technology, MESRA, Jaipur Campus, Jaipur, 06 Oct. 2005 – 06 Aug. 2009.
- *Post Doctoral Fellow* – Institute for Plasma Research (An autonomous body under **Dept. of Atomic Energy**), Gandhinagar, 22 Nov. 2004 – 05 Sept. 2005.
- *Research Scholar* - Institute for Plasma Research (An autonomous body under **Dept. of Atomic Energy**), Gandhinagar, 01 Sept. 1997 – Oct. 2004.
- *Visiting Faculty* - K.G.K. P.G. College, Moradabad, Academic session, 1996 – 1997.

Administrative Responsibilities in present and previous organizations:

Apart from teaching assignment following administrative responsibilities are taken in present and previous organizations:

- Principal Govt. Degree College, Moradabad.
- Head of the department at TMU, Moradabad.
- Centre Superintendent at TMU, Moradabad.
- Co-ordinator of Academic Review Committee at TMU, Moradabad.
- Co-ordinator of Curriculum Design Committee at TMU, Moradabad.
- Incharge of College exam cell at TMU, Moradabad.
- Member of College Research Committee at TMU, Moradabad.
- Member of Board of Studies at TMU, Moradabad.
- Member of Board of Faculty at TMU, Moradabad.
- Member of Library committee, syllabus review committee & other various committees at TMU, Moradabad.
- Member of Psychomotor Skills Committee at TMU, Moradabad.

Technical/Experimental Skill:

- Working experience in glow discharge and plasma diffusion treatments.
- Experience in electrical diagnostic for gas discharges/ plasmas including electrical probe, CCD Camera.
- Experience in design and fabrication of low voltage DC (~1kV) and ramp power supply.
- Experience in design and fabrication of electronics circuits used in diagnostic and controls.
- Experience in data acquisition techniques for RS232.
- Working experience with vacuum techniques and systems.

Computational/Analysis Skill:

- Conversant work on Windows/linux operating systems including MS-Office applications.
- Comprehensive knowledge of C and FORTRAN programming languages.
- Extensively worked in "Matlab" and "Image-J", for the image analysis.
- Well versed in data handling and data analysis.

Professional Memberships:

- Life member of "Indian Association of Physics Teachers" (Membership No. 9808L6133).
- Life member of "Indian Science Congress" (Membership No. L20903).
- Life member of "Indian Society for Technical Education" (Membership No. LM 84619).
- Life member of "Plasma Science Society of India" (Membership No. LM 451).
- Life member of "Youth Hostel Association of India" (Membership No. 027 YH13 L060109).
- Life member of "AAPPS-DPP" (Membership No. 654).

Award/Fellowship/Training:

- **Outstanding Achievement Award** by Astha Foundation on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS – 2022) during 21 – 23 Nov. 2022 held at Birsa Agricultural University, Ranchi, India.
- **Certificate of Merit for Best Teaching** by University Polytechnic, Teerthankar Mahaveer University (2021).
- **Post Doctoral Fellowship** by Institute for Plasma Research (Nov. 2004 – Sept. 2005).
- **Research Fellowship** by Institute for Plasma Research (September 1997-Oct. 2004).
- Awarded **National Merit Scholarship** from SSC to post graduation (M.Sc.) study (1989-1996).

Foreign Country Visited:

- University of Natal, Durban, **South Africa**: To Participate and present poster (2) in International Conference on Physics of Dusty Plasmas (ICPDP), May 20-24, 2002.
- Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, **Italy**: To attend Autumn College on Plasma Physics at Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy, September 5-30, 2005.

Dissertations/Thesis/Project Report Supervised:

1. "*Performance Measurement of Structure – Adaptable Digital Neural Networks*" **Ph.D. thesis** (2020) of Pratap Singh, Teerthankar Mahaveer University, Moradabad, India, Supervisor : Dr. Harvir Singh & Dr. A.K.Agarwal.
2. "*Fiber Design for Broadband Long Period Gratings and Lossless Dispersion*"

- Ph.D. thesis** (2019) of Asad Ali Khan, Teerthanker Mahaveer University, Moradabad, India, Supervisor: Dr. V.K. Sharma & Dr. A.K.Agarwal.
3. “*Evaluation of security for RIFD technology to building it in the global Env.*”
Ph.D. thesis (2017) of Rohit Sharma, Teerthanker Mahaveer University, Moradabad, India, Supervisor: Dr. P.K. Singh & Dr. A.K.Agarwal.
 4. “*Analytical Study of Dispersion Characteristics of Single Mode Photonic Crystal*”
M.Sc. Major Project (2014) of Divya Dixit, Teerthanker Mahaveer University, Moradabad, India, Supervisor: Dr. A.K.Agarwal.
 5. “*2-D Forward Modelling Using Gravity Data to Determine the Subsurface Structure of Earth*”
M.Sc. Major Project (2014) of Rupa, Teerthanker Mahaveer University, Moradabad, India, Supervisor: Dr. A.K.Agarwal.
 6. “*A Study on Piezoelectric Energy Harvesters Integrated in Footwear*”
M.Sc. Major Project (2014) of Shubhanshu Karmaker, Teerthanker Mahaveer University, Moradabad, India, Supervisor: Dr. A.K.Agarwal.
 7. “*A Study : The Role of Nitrogen Atom in Plasma Nitriding*”
M.Sc. Minor Project (2014) of Arvind Kumar Gangwar, Aman Kumar & Divya Dixit, Teerthanker Mahaveer University, Moradabad, India, Supervisor: Dr. A.K.Agarwal.
 8. “*A Study of Attractive Force Between Large Size Dust Grain*”
M.Sc. Minor Project (2014) of Aditya Sharma & Anshika Verma, Teerthanker Mahaveer University, Moradabad, India, Supervisor: Dr. A.K.Agarwal.
 9. “*Measurement of Interparticle Distance in Strongly Coupled Dusty Plasma*”;
Summer School Dissertation (2001) of Poornima, K., Pondicherry University, Pondicherry, Supervisor: G. Prasad, A. K. Agarwal, Institute for Plasma Research.
 10. “*Experimental Study of DC Glow Discharge*”
Summer School Dissertation (2001) of Rana, T.K., Utkal University, Orissa, Supervisor: G. Prasad, A. K. Agarwal, Institute for Plasma Research.

Subject Taught:

- Engineering Physics
- Applied Physics

- Basic Physics
- Electromagnetic Theory
- Nanoscience and Nanotechnology
- Material Science
- Semiconductor Devices
- Optics

Projects:

- Worked on *In-House* project on “DCMD based Water Desalination using Solar Energy”, in collaboration with ‘United Technology Research Center’, U.S.A, at Birla Institute of Technology, Mesra.
- Worked on *In-House* project on “Vapor Absorption Chilling using Solar Energy”, at Birla Institute of Technology, Mesra.

Patents:

- Australian Patent 2021100024, “IoT Based Smart Rodent Repelling System for Automobiles,” July 21, 2021
Inventors: Shinghal, Kshitij; Saxena, Amit; Sharma, Amit; **Agarwal, Anuj** and Gupta, Praful

Articles Published as Book Chapter / Reviewer in Conference Proceedings:

1. Dr. Mani Bansal, Dr. A. K. Agarwal, “Henna or Mehendi : Exotica and Transcends the Religions and Enriches the Culture”; pg. 81– 84 in text book of Woman and Her Stance in Indian Customs and Rituals, Edition 1, Thomson Press, India (Ltd), 2022, ISBN 978-93-5529-108-0.
2. Dr. A. K. Agarwal, “Aao Kuch Behtar Soche : Kuch Kar Dikhae”, pg. 131 – 138 in text book of Locating Women in Government Policies, Edition 1, Thomson Press, India (Ltd), 2022, ISBN 978-93-5529-3749.
3. Dr. Mani Bansal, Dr. A. K. Agarwal, “Chatra Asantosh Ki Badalti Tasbeer: Shikshak aur Navachar”, pg. 131 – 138 in text book of Unrest Among Indian Youth, Edition 1, Shiksha Prakashan, Jaipur, 2021, ISBN 978-93-82138-22-8.
4. Dr. Mani Bansal, Dr. A. K. Agarwal, “Nayi Shiksha Neeti Ka Lachilapan, Shiksha Ki Gudvatta : Sujhav”, pg. 203 – 208 in text book of National Education Policy 2020, A Paradigm Shift in Indian Education, Edition 1, Ishika Publications, Agra, 2020, ISBN 978-93-87697-43-0.
5. Dr. Mani Bansal, Dr. A. K. Agarwal, “Innovation as the New Ideator of Post Coronavirus World”, pg. 133 – 144 in text book of COVID – 19 Battle for Survival, , Edition 1, Kalpaz Publications, Delhi, 2020, ISBN 978-93-5324-284-8.

6. Dr. Mani Bansal, Dr. A. K. Agarwal, “To Make Teaching A Novel Profession: Some Suggestion”, pg. 122-125, in text book of Higher Education Ills and Cures, Shiksha Prakashan, Jaipur, 2018, ISBN 978-93-82138-18-1.
7. Dr. Rohit Sharma, Dr. A. K. Agarwal, “Proceedings of 2018 International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE 2018)”, IEEE Catalog Number: CFP18F06-POD, ISBN 978-1- 5386- 6918.
8. Dr. Rohit Sharma, Dr. A. K. Agarwal, “Proceedings of 2016 International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE 2016)”, IEEE Catalog Number: CFP16F06-POD, ISBN 978-1- 5090- 3411-6.
9. Dr. Suraj Kumar Sinha, Dr. A. K. Agarwal, “Proceedings of 27th National Symposium on Plasma Science & Technology on Challenges of Power Generation & Lighting 21st Century”, Excel India Publishers, New Delhi, 2013, ISBN 978-9382062-82-0

Research Papers Published In Journals:

1. Mani Bansal, Dr. A. K. Agarwal “Sanketic Jalvayu Aapatkal, Nirashajanak Raviya: Kuch Sujhav”. Sahitya Samhita, vol. 7(12), Dec. 2021, pg. 23 – 30, ISSN 2454 2695.
2. Mani Bansal, Anuj Kumar Agarwal, “NEP 2020 to Bridge Missing Academic Perspective in Higher Education in India”, Naveen Shodh Sansar, March 2021, Vol. 1 (33), pg. 504 – 507, ISBN/ISSN No. 2320-8767.
3. Mani Bansal, Anuj Kumar Agarwal, “Create a Better World We Live In: Our Responsibilities”, Naveen Shodh Sansar, July to September 2020, Vol. 1 (31), pg. 406 – 409, ISBN/ISSN No. 2320-8767.
4. Rohit Sharma, Raghvendra Kumar,.... Anuj Kumar Agarwal, “Analysis of Water Pollution Using Different Physicochemical Parameters: A Study of Yamuna River”, Frontiers in Environmental Science, Volume 8 (Article 581591), 2020. **ISBN/ISSN No. 2296-665X.**
5. Pradeep Kumar Verma, Sachin Kumar Agarwal, Vipin Kumar, Anuj Kumar Agarwal, ”Economic Study of 3 Kw On – Grid Solar Photovoltaic System for Residence in Moradabad”, International Journal of Advanced Science and Technology, Vol. 29 (3), pg. 11434 – 444, 2020. **ISBN/ISSN No. 2005-4238.**
6. Pradeep Kumar Verma, Vipin Kumar, Anuj Kumar Agarwal,”An analysis between Installation cost & payback through on grid Solar Energy System”, Mukta Shabd Journal, Vol. 9 (5), pg. 1249 – 1255, 2020. **ISBN/ISSN No. 2347-3150.**
7. Anil Kumar, Asad Ali Khan, Anuj kumar Agarwal, “Future In Optical Transmission System”, International Journal of Engineering & Scientific Research, Vol. 5(9), pg. 75 – 81,2017. **ISBN/ISSN No. 2347-6532**

8. Anil Kumar, Asad Ali Khan, Anuj kumar Agarwal,” Co-axial Fiber Design for Inherently Flatten Raman Gain Spectra”, International Research Journal of Natural and Applied Science, Vol. 4 (9), pg. 104 – 113, 2017. **ISBN/ISSN No. 2349-4077.**
9. Dr. Harvir Singh, Dr. Anuj Kumar Agarwal & Pratap Singh, “Structure Adaptable Neural Network Based Nonlinear Tracking Control of Kinematically Redundant Robot Manipulator”, International Journal of Applied Science and Engineering Technology, Vol. 5 (4), Pg: 944 – 951, 2017. **ISBN/ISSN No. 2321-9653.**
10. Rohit Sharma, Anuj Kumar Agarwal, PKS,” Comparing Different Methodologies Used To Ensure the Security of RFID Credit Card: A Comparative Analysis”, Journal of Network Communications and Emerging Technologies (JNCET), 2017, Vol. 7(1), pg. 13 – 17. **ISBN/ISSN No. 2395-5317.**
11. Rohit Sharma, Anuj Kumar Agarwal, PKS,” Data Security by (information XOR Image) Along with High Capacity Encryption to Overcome Steganography”, International Journal of Computational Intelligence Research, Vol. 11 (1), 2015; pg 27-36. **ISBN/ISSN No. 0973-1873.**
12. Rohit Sharma, Anuj Kumar Agarwal, PKS, ”Advancement in RFID security by proposed framework utilizing Random bit generator and sensor network”, International Journal of Advanced Computer Research, Vol. 5(20), 2015; 321-326. **ISBN/ISSN No. 2277-7970.**
13. Rohit Sharma, Anuj Kumar Agarwal, PKS,” Transaction security in RFID Credit Card by Polynomial Arithmetic Along with Euclidean Parameters”, international journal of engineering and technology (IJET), Vol. 7(4), 2015, 1194 – 1199. **ISBN/ISSN No. 0975-4024.**
14. A.K.Agarwal, “*Observation of self-excited Dust acoustic waves (DAW) in Strong-Coupling regime*”, ICARI workshop, DTU, Delhi, India, January 30, 2015; pg 444 - 47. **ISBN/ISSN No. 978-93-5156-328-0.**
15. A.K.Agarwal, “*A Survey on Fundamental Physics of Dusty Plasma*”, International Journal of Advance Research and Innovation 2013, Vol. 3, pp. 133 - 143. **ISBN/ISSN No. 2347-3258.**
16. A. K. Agarwal and G. Prasad, “*Observation of dust – dust scattering and molecule formation in dusty plasma*”, Physics Letters A. 2005, Vol. **341**, pp.-479-486. **ISBN/ISSN No. 0375-9601.**
17. A. K. Agarwal and G. Prasad, “*Spontaneous dust mass rotation in an unmagnetized dusty plasma*”, Physics Letters A 2003, Vol. **309**, pp.-103-108. **ISBN/ISSN No. 0375-9601.**
18. A. K. Agarwal and G. Prasad, “*Experimental study of Coulomb Crystal formation in Hollow Cathode Discharge*”, Proceeding of IIIrd International Conference on Physics of Dusty Plasma (ICPDP), Durban, South Africa, May 2003, Vol. **649**, pp. 261-264. **ISBN/ISSN No. 0-7354-0106-3.**

19. A. K. Agarwal and G. Prasad, "*Observation of Rotating Dust Particles*", Proceeding of IIIrd International Conference on Physics of Dusty Plasma (ICPDP), Durban, South Africa, May 2003, Vol. **649**, pp. 265-268. *ISBN/ISSN No. 0-7354-0106-3*.
20. A. K. Agarwal and G. Prasad, "*Spontaneous Dust Mass Rotation in an Unmagnetized Dusty Plasma*", Research Report IPR, **IPR/RR-298/2003**, Institute for Plasma Research, India, Feb. 2003.

Webinar/ Seminar / Conference / Workshop Organized:

- Actively participated in organization of webinar on "How to Enhance Communication Skills" presented by Mr. Shakti Singh, Personality Development Trainer, GLA University, Mathura on 19th Dec 2020.
- Actively participated in organization of webinar on "Necessity of Vedic Mathematics" presented by Dr. Manuj Kumar Agarwal, Assistant Professor (MIT) on 02nd Nov 2020.
- Actively participated in organization of webinar on "Need of Soft Skills in Competitive World" presented by Mr. Shakti Singh, Personality Development Trainer from GLA University, Mathura & Mr. Neeraj soft skill trainer from Presidency University, Bangalore, on 08th Aug. 2020.
- Actively participated in organization of workshop on "Carrier Counseling" by Mr. Shakti Singh, PD Trainer, GLA University, Mathura on 27th Nov. 2018
- Actively Participated in the organization of 2nd International Conference on "Emerging Trends in Engineering and Technology", organized by College of Engineering, T.M.U., Moradabad, India, April 12-13, 2013.
- Actively Participated in the organization of National seminar on Indian Nuclear Programme: Pride of India (INP-PI-2010) jointly organized by Indian Nuclear Society and College of Engineering, T.M.U., Moradabad, India, August 21, 2010.
- Actively Participated in the organization of National Workshop on Commemoration of National Technology Day in Rajasthan, "Environment Friendly Plasma Nitriding Process for Surface Hardening of Industrial Components", Birla Institute of Technology, Extension Centre Jaipur, India, May 11 2008.
- Actively Participated in the organization of IAEA International workshop on Challenges in Plasma Spectroscopy for Future Fusion Research Machine, B.M. Birla Auditorium, Jaipur, India, Feb. 20-22, 2008.
- Actively Participated in the organization of National Workshop on Effective Intellectual Management (EIM 2008), B.M. Birla Auditorium, Jaipur, India, April. 16-17, 2008.

- Actively Participated in the organization of 21st National Symposium on Plasma Science & Technology: Plasma 2006 workshop, Malviya National Institute of Technology, Jaipur, India, Dec. 19-22, 2006.

FDP / Workshops – Attended:

1. Participant in **Faculty Development Program** on “Basics of Electric Vehicles”; under the scheme of **ATAL FDP**, organized by Thapar Institute of Engineering And Technology, Patiala (Punjab), Sept. 10 – 14, 2021.
2. Participant in **Faculty Development Program** on “Waste Technology”; under the scheme of **ATAL FDP**, organized by National Power Training Institute, Shivpuri (M.P.), Aug. 02 – 06, 2021.
3. Participant in **Faculty Development Program** on “Foundation of Data Science & its Applications”; under the scheme of **ATAL FDP**, organized by Indira Gandhi Delhi Technical University for Women, Delhi, July 26 – 30, 2021.
4. Participant in **Faculty Development Program** on “Nanotechnology for Electronic and Photonic Devices (NanoDev-2021)”; under the scheme of **ATAL FDP**, organized by Punjab Engineering College (Deemed to be University), July 12 – 16, 2021.
5. Participant, **Training program** on “Academic Leadership and Education Management”, Organized by AMU, Aligarh, Under the scheme of **PMMMNMTT, MHRD**, Govt. of India, hosted by Vardhman College, Bijnor, March 16 – 22, 2021.
6. Participant, Online **Workshop** on “My Story – Entrepreneurial Development into the Field of IOT and Cloud Computing”, organized by Faculty of Engineering, TMU, Moradabad, under the aegis of Institution Innovation Council (A Ministry of Education Initiative) on Dec. 23, 2020.
7. Participant, Online **Workshop** on “Orientation Session on National Innovation & Startup Policy (NISIP)”, organized by Faculty of Engineering, TMU, Moradabad, under the aegis of Institution Innovation Council (A Ministry of Education Initiative) on Dec. 22, 2020.
8. Participant, Online **Workshop** on “Entrepreneurship and Innovation as Career Opportunity”, organized by Faculty of Engineering, TMU, Moradabad, under the aegis of Institution Innovation Council (A Ministry of Education Initiative) on Dec. 02, 2020.
9. Participant, National **Faculty Development Program** on “Innovation and Intellectual Property Right”, organized by APC Mahalakshmi College for Women, Thoothukudi, India, July 6, 2020.
10. Participant, International **Faculty Empowerment Program** on “Challenges and Opportunities in Futuristic Learning and Development sector”, organized by Guru Nanak College, Velachery, Chennai, India, July 01, 2020.

11. Participant in **Faculty Development Program** on “Research Methodology & Environment – Sustainable Development”; Under the scheme of **RUSA**, organized by Meerut College, Meerut, Dec. 27 to 02 Jan. 2020.
12. Participant, **Training program** on “Academic Leadership”, Organized by AMU, Aligarh, Under the scheme of **PMMMNMST, MHRD**, Govt. of India, hosted by Teerthanker Mahaveer University, Moradabad, August 24 – 28, 2018.
13. Participant, **Faculty Development Program**; organized by University Polytechnic, Teerthanker Mahaveer University, July 29 to 01 August, 2015.
14. Participant, Skill Development **Workshop**; organized by University Polytechnic, Teerthanker Mahaveer University, Jan. 24, 2013.
15. Participant, **Faculty Development Program** on Technical Consulting; jointly organized by Consulting Development Centre and Teerthanker Mahaveer University, Dec. 11 – 12, 2012.
16. Participant, Wiki-educator **workshop** at College of Engineering, T.M.U., Moradabad, India, Sept. 3-5, 2010.
17. Participant, **Autumn College** on Plasma; organized by Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy, September 5-30, 2005.

Articles submitted/under preparation:

1. *"Experimental study of melting transition of Coulomb solids in dusty plasma"*.
2. *"Rotation of dust cloud in dusty plasmas"*
3. *"Attractive forces between large sized dust grains in dusty plasmas"*.

Session Chaired/Resource Person:

1. **Chaired** one technical session, IEEE UP Section, “International Conference on Micro – Electronics and Telecommunication Engineering”, organized by SRM University, Delhi NCR Campus, India, Sept. 20–21, 2018.
2. **Chaired** 4th technical session, International Conference on “Reflections of Buddhism in Southeast Asian Culture and its Revival”, organized by International Buddha Education Institute at Gautami Hights Kashipur, India, Sept. 28-30, 2017.
3. **Chaired** 3rd technical session, UGC Sponsored National Seminar on “Human Environment Relationship: A Special Discussion on Water Crises in India”, organized by P.N.G. Govt. P.G. College, Ramnagar, India, March 29-30, 2017.
4. **Chaired** one technical session, IEEE UP Section, “International Conference on Micro – Electronics and Telecommunication Engineering”, organized by SRM University, Delhi NCR Campus, India, Sept. 22–23, 2016.

5. **Resource Person**, “Pandit Deen Dayal Upadhyay Janm Shatabdi Samaroh”, organized by Nehru Yuva Kendra –Yuva Mandal, Govindnagar, Moradabad, India, Sept. 25, 2016.
6. **Resource Person Ist technical session**, UGC Sponsored National Seminar on “Govt. Policies Pertaining to Women: Awareness, Implications and Suggestions”, organized by D.A.K. College, Moradabad, India, Feb. 26-27, 2016.
7. **Resource Person**, XIXth – Rovers Rangers Samagam, organized by Hindu College, Moradabad, India, Feb. 21-23, 2016.
8. **Invited Speaker**, Workshop on “Innovative Paradigms in Physics: Carrier Prospects” organized by Dept. of Physics, S.M.College, Chandausi, India, Feb. 05, 2015.
9. **Resource Person**, Knowledge Quiz, Jointly organized by Umar Ujala and Heritage Inst. Of Hotel & Tourism at Bachpan Play School, Moradabad, India, Dec. 5 – 7, 2010..

Lecture – Attended/Delivered:

1. **Participant**, Leadership talk with Dr. Nilesh N Oak, organized by MHRD Innovation Cell, India, May 30, 2020.
2. **Participant**, Leadership talk with Shri R. Subrahmanyam, organized by MHRD Innovation Cell, India, June 13, 2020.
3. **Invited Speaker**, Technology day seminar, College of Engineering, T.M.U., NH24, Moradabad, India, May 10, 2010.
4. **Guest Speaker**, Summer Training Program, Birla Institute of Technology, Extension Center Jaipur, India, July 2007.
5. **Invited Speaker**, Birla Institute of Technology, MESRA, Extension Center Jaipur, India, Aug. 16, 2005.
6. **Guest Speaker**, Summer School Program, Institute for Plasma Research, Gandhinagar, India, June 2004.
7. **Guest Speaker**, Summer School Program, Institute for Plasma Research, Gandhinagar, India, June 2003.

Presentation in Conference / Webinar:

1. **Oral presentation**, “NEP-2020 : Significance of ICT in Higher Education”, Naional Seminar on “Significant Transformation in Higher Education and its Consequences in he context of NEP – 2020” organized by Government Raza P G College, Rampur, India, Mrch 20, 2021.

2. Oral presentation, “Use of Computation in Advance Science and technology”, International Conference on “Advance Computing”, organized by CCSIT, TMU, Moradabad, India, Nov. 07, 2020.
3. Oral presentation, “*Human Values and Professional Ethics in Science Teaching*” National Seminar on “Human Values and Professional Ethics in Education: Needs and Importance”, organized by Government Raza P G College, Rampur, India, Feb. 22-23, 2020.
4. Oral presentation, National Seminar on “Unrest Among Indian Youth” organized by Shree Bala Ji Academy, Sambhal Road, Moradabad, India, February 16-17, 2020.
5. Oral presentation, “*Teaching Learning and Evaluation*”, National Seminar on “Teaching Learning and Evaluation: As per NAAC Guidelines”, organized by R.B.D. Mahila Mahavidyalaya Bijnor, India, February 03, 2020.
6. Oral presentation, “*Use of Matlab : Image Processing*”, International Conference on Advance Computing – ICAC 2019, organized by CCSIT, TMU, Moradabad, India, April 26, 2019.
7. Oral presentation, “*Importance of MOOCs for the Improvement in Higher Education*”, National Seminar on “Globalization and its Impact on Indian Education and Society” organized by Shree Bala Ji Academy, Sambhal Road, Moradabad, India, Feb. 19-20, 2019.
8. Oral presentation, “*Advancement in Transaction Security in RFID Credit Cards*”, International Conference on “Advance Computing”, organized by CCSIT, TMU, Moradabad, India, May 05, 2018.
9. Oral presentation, “*The Impact of Value Education on the Promotion of Science*”, National Seminar on “Value – Added Education in Present Era” , organized by Shree Bala Ji Academy, Sambhal Road, Moradabad, India, Feb. 10-11, 2018.
10. Oral presentation, “*3D Simulation for Analysis of Dust – Dust Scattering*”, International Conference on Advance Computing, organized by CCSIT, TMU, Moradabad, India, May 06, 2017.
11. Oral presentation, “*Challenges of Science Institute of Uttar Pradesh*”, National Seminar on “Education in Present Era: Problems & Prospects”, organized by Shree Bala Ji Academy, Sambhal Road, Moradabad, India, Nov. 12-13, 2016.
12. Oral presentation, “*New Trends in Waste Disposal Management*”, International Seminar on “Our Environment – Yesterday Today & Tomorrow” organized by Paryavaran Mitra Samiti & UP Pollution Control Board at DAK College, Moradabad, India, Dec. 19-20, 2015.
13. Oral presentation, “ *Observation of self-excited Dust acoustic waves (DAW) in Strong-Coupling regime*”, International Conference of Advance Research and Innovation, organized by DTU, Delhi, India, Jan. 31, 2015.

14. Oral presentation, "*Human Rights Meaning & Concept*", National Seminar on "Human Rights", a UGC sponsored seminar, organized by Dept. of Education, Dayanand Arya Kanya, P.G. College, Moradabad, Feb. 27 – 28, 2012.
15. Oral presentation, "*Plasma the Fourth State of Matter : Ultimate Source of Nuclear Energy*" National seminar on Indian Nuclear Programme: Pride of India (INP-PI-2010) jointly organized by Indian Nuclear Society and College of Engineering, T.M.U., Moradabad, India, Aug. 21, 2010.
16. Oral presentation, "*Experimental Observation of Dipolar Vortex Formation in Laboratory Dusty Plasma*", Autumn College on Plasma Physics at Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy, Sept. 5-30, 2005.
17. Poster presentation, "*Experimental Studies in Strongly Coupled Dusty Plasma*", Autumn College on Plasma Physics at Abdus Salam International Center for Theoretical Physics (ICTP), Trieste, Italy, Sept. 5-30, 2005.
18. Poster presentation, "*Experimental Studies of Dust Mass Rotation in Hollow Cathode Discharge*", 2nd International Conference on Frontiers of Plasma Physics and Technology (FPPT), Organized in corporation with International Atomic Energy Agency and Department of Science and Technology at Old Anchor Resort, Goa, India, Feb. 21-25, 2005.
19. Poster presentation, "*Observation of Rotating Dust Particles*" in International Conference on Physics of Dusty Plasmas (ICPDP), University of Natal, Durban, South Africa, May 20-24, 2002.
20. Poster presentation, "*Experimental study of Coulomb Crystal formation in Hollow Cathode Discharge*" in International Conference on Physics of Dusty Plasmas (ICPDP), University of Natal, Durban, South Africa, May 20-24, 2002.
21. Poster presentation, "*Observation of self-excited Rotating Dusty Structure in Strong-Coupling regime*", 16th National Symposium on Plasma Science & Technology: Plasma 2001, Organized by Center for Plasma Physics, Assam, India, Dec. 17-20 2001.
22. Poster presentation, 13th National Symposium on Plasma Science & Technology, Organized by Saurashtra University, Rajkot, India, Oct. 27-30 1998.

Conference / Webinar – Attended:

1. Participant, National Webinar on "Intellectual Property Rights", organized by Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India, Sept. 11, 2020.
2. Participant, National Webinar on "Quantum – dot Cellular Automata: Emerging Technology for Nano-architectures", organized by Sri Eshwar College of Engineering, Chennai, India, July 20, 2020.

3. Participant, National Webinar on “Additive Manufacturing: Fundamentals and Applications”, organized by Francis Xavier Engineering College, India, July 14, 2020.
4. Participant, National Webinar on “Engineering project management: scope, cost, risk and teams”, organized by Francis Xavier Engineering College, India, July 09, 2020.
5. Participant, National Webinar on “Application of PCM Nanofluids in Thermal Power Plants”, organized by Francis Xavier Engineering College, India, July 08, 2020.
6. Participant, National E-Quiz on “Save nature for Vigorous Future”, organized by Tirunelveli Dakshina Mara Nada Sangam College, Tamilnadu, India, July 04-08, 2020.
7. Participant, National Webinar on “Ultrafine grained materials: Old material with futuristic properties”, organized by Francis Xavier Engineering College, India, July 04, 2020.
8. Participant, National Webinar on “Effective and efficient writing of research papers for web of science, scopus indexed journal and conference papers using Typeset Research Studio”, organized by Electronics & Telecommunication & Central Library, AISSMS COE, Pune, India, July 01, 2020.
9. Participant, National Webinar on “Energy Management in building”, organized by Francis Xavier Engineering College, India, June 26, 2020.
10. Participant, National Webinar on “Application of Mathematical Modeling and Statistical Learning on COVID – 19 and its Related Problems”, organized by Bareilly College, Bareilly, Uttar Pradesh, India, June 07, 2020.
11. Participant, National Webinar on “A self Automated & Instantaneous Patent Drafting Tool”, organized by Technolawjease Intellectual Property Management Solutions Pvt. Ltd., Secunderabad, India, May 31, 2020.
12. Participant, National Webinar on “Intelligent Systems”, organized by Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, India, May 28, 2020.
13. Participant, Seminar on “Induction of Entrepreneurial Qualities in Youth”, Organized by MIT, Moradabad, Dec. 01, 2018.
14. Participant, “PLC SCADA”, workshop organized by DUCAT, University Polytechnic, TMU Moradabad, April 25, 2015.
15. Attended, DST – PSSI interaction meeting on Popularizing Plasma Science, Technology & Its Applications in Indian Academic Organizations, Institute for Plasma Research, Gandhinagar, India, April 10 – 11, 2008.
16. Participant, D-link Netwision 2003 -Towards a Network World, Ahemdabad, India, Sept. 24, 2003.

17. Participant, in Medhavi Chatra Pratiyogita, organized by Arya Samaj Station Road, Moradabad, India, Sept. 14 1991.

Community Service:

1. Blood Donation, at IPR Gandhinagar, “organized by Prathma.
2. Blood Donation, at BIT Jaipur, “organized by Lions International Club.
3. Formed Science Club for Graduate and Post Graduate students at TMU Moradabad, 2012.
4. Membership of different bodies, such as IAPT, ISC, YAHN etc.
5. Planted trees in society as well as university to protect environment.
6. Member of Ramganga Chaupal.
7. Support in organization of various curricular activities at college, e.g. – Swatch Bharat Abhiyan, Environment Protection, Teachers Day celebration, Vishwkarma Pooja, Engineers day celebration, Annual Day Celebration, etc.

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