


Cluster Innovation Centre



...Evolving Senses
Dissolving Boundaries...

संकुल
नवप्रवर्तन
केंद्र

Faculty Performa

Title	Prof.	First Name	PANKAJ	Last Name	TYAGI	Photograph
Designation		PROFESSOR				
Address Office:		Cluster Innovation Centre University Stadium University of Delhi, Delhi-110007				
Residence:		N-13, Second Floor, Riviera Apartment, Mall Road, Delhi -110054				
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	Mobile	9810726750				
Email		pankajtyagicicdu@gmail.com pankajtyagi@cic.du.ac.in				
Web-Page		https://sites.google.com/cic.du.ac.in/pankajtyagi https://ducic.ac.in				
Educational Qualifications						
Degree	Institution		Year			
Ph.D.	Department of Physics & Astrophysics, University of Delhi		2002			
PG: M.Sc. (Physics with Electronics)	Department of Physics & Astrophysics University of Delhi		1993			
UG: B.Sc. (Hons) Physics	Hans Raj College, University of Delhi		1991			
Career Profile						
<ul style="list-style-type: none"> • Present date - since 12 March 2015: Professor, Cluster Innovation Centre (CIC), University of Delhi, Delhi – 110007 • 4th July 2012 till 11 March 2015 (on deputation): Associate Professor in Physics & Electronics, Cluster Innovation Centre (CIC), University of Delhi, Delhi – 110007 • 13th Jan 2012 till 3rd July 2012(on deputation): Fellow in Physics, Institute of Lifelong Learning (ILLL), University of Delhi, Delhi – 110007 • 26th August 1996 till 12th Jan 2012: Teaching faculty (Lecturer, Senior Lecturer, Reader and Associate Professor), Acharya Narendra Dev College (ANDC), University of Delhi, Delhi • 17th July 1995 till 25th August 1996: Temporary Lecturer, Acharya Narendra Dev College (ANDC), University of Delhi, Delhi 						

Administrative & other Academic Assignments

1. Member of Selection Committee for Promotion to Professor Level in DU Colleges, 2021
2. Member of Selection Committee for Promotion to Associate Professor Level in DU Colleges, 2021
3. Coordinator, M.Sc. (Mathematics Education), Meta University Concept Programme Jointly offered by the University of Delhi and Jamia Millia Islamia, From 11th October 2012 since 25th February 2021
4. Member DU's 97th Annual Convocation Webcast and Digital Requirement Committee, 2021
5. Member of Selection Committee for Scientist E at STPI, 2020
6. Jury Member for INSPIRE Awards-MANAK 7th National level Exhibition and Project Competition (NLEPC) Program of Department of Science & Technology (DST), Ministry of Science & Technology on February 14, 2019 at IIT Delhi.
7. Member of screening committee for shortlisting entries for Innovation Festival 2019 held at National Science Centre, Delhi from 7th to 9th February 2019.
8. Member of Local organizing committee of International Conference on Nano-Structured Materials & Devices organized by Society for Technologically Advanced Materials of India (STAMI) & University of Delhi from December 17-20, 2018.
9. Member of committee of the Swachh Bharat Summer Internship Programme, University of Delhi -2018
10. Member of the panel of judges for Innovation Fair held at National Science Centre, Delhi on 21 January 2018.
11. Coordinator for QUEST-2017, Science Education program conducted by Centre for Science Education and Communication, University of Delhi.
12. Observer in Delhi University Entrance Test – 2017
13. Member in panel of examiners of IGNOU, 2017
14. Member of committee to select Innovators for Innovation Festival 2017 at National Science Centre, Delhi.
15. Jury of 6th National Level Exhibition and Project Competitions (NLEPC) 2016 of DST-INSPIRE AWARD at NPL New Delhi during December 10-11, 2016
16. Judged Atal Tinkering Labs (ATL) - Innovation Challenge^[1] organized under Atal Innovation Mission by NITI Aayog, Government of India in Delhi in Nov 2016
17. Member of Advisory Board for Software Technology Park of India (STPI) Gurgaon since July 2016 till date.
18. Member of Governing body of Swami Shraddhanand College, University of Delhi from 26.02.2016 till 25.08.2016
19. Jury of INSPIRE AWARD National Level Exhibition & Project Competition (NLEPC) conducted by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India held at IIT Delhi on 06-07 December 2015.
20. Participated in National Workshop on “Best Practices in Citizen Centric Governance” organized by Ministry of Personnel, Public Grievances & Pensions at Vigyan Bhavan, New Delhi on 10-11 September 2015.
21. Participated in “One Day Sensitization Workshop” organized by Centre for Innovation in Public Systems (CIPS) on e-Governance initiatives under “Capacity Building Programmes of Innovatives/Best Practices under Mission Mode Projects of State Governments and Government of India” held on 28 August 2015 at New Delhi.
22. Member of Technical Committee to monitor VPN connectivity in colleges of University of Delhi and North & South Campus from March 2015 till date.

23. Member of Screening Committee for promotion of Group ‘A’ S&T officers under MFCS at Software Technology Park of India, Delhi in May 2016.
24. Member of the Organizing Committee University of Delhi’s Cultural & Academic Program “Antardhvani” 2015, 2014, 2013.
25. Coach Coordinator in “Gyanodaya Express III: An Educational Train Journey of University of Delhi” from 02-08 September 2013.
26. Resource Person in the Workshops on Foundation Course “Building Mathematical Ability” (Five Cycles: 15 days: May-July 2013).
27. Resource Person in the Workshops on Foundation Course “Information Technology” (Five Cycles: 15 days: May-July 2013).
28. Nominated Member of Empowered Committee for framing curriculum/syllabus of three Foundation Courses under FYUP: Information Technology, Building Mathematical Ability and Science & Life, 2013.
29. Observer for DUSU Polls 2013, 2012.
30. Fellow in Physics at Institute of Lifelong Learning (ILLL), University of Delhi From Jan 2012 till July 2012.
31. Co-convener in organizing “International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials ” (ICWNCN-2012), March 13-16th, 2012 by Department of Physics & Astrophysics, University of Delhi, Delhi, India.
32. Convener in a 3-Week Refresher Course in the subject “*Physics & Electronics*” conducted by CPDHE, University of Delhi, Delhi-110007, From December 23, 2010 to January 13, 2011.
33. Observer, for conducting FMS-MBA-2011 Examination, University of Delhi, Delhi-110007
34. Co-coordinator in a 3-Week Refresher Course in the subject “*Physics & Electronics*” conducted by CPDHE, University of Delhi, Delhi-110007, From December 01 to December 22, 2008.
35. Examination Tabulator for Delhi University Annual Examination –2006-2011

Areas of Interest / Specialization

- Innovations at undergraduate level
- Innovative Pedagogy
- Science (Physics) & Mathematics Education
- Electronics and devices
- Thin films & Optical properties

Subjects /Papers Taught

- Innovation in Education, M. Sc. (Mathematics Education) (CIC)
- Physics at work I & II : Deconstructing Machines (CIC)
- Electronics at work & Circuit Simulation (CIC)
- Circuit Analysis and Synthesis (CIC)
- Digital Electronics and Logic Design – Innovation Lab (CIC)
- Innovation Project-I: Interlinking mathematics and real life problems (CIC)
- Mechanics, Thermal Physics, Optics, Modern Physics, Electricity & Magnetism Electronic Devices, Waves & Oscillation, Digital Electronics, Quantum Mechanics, Atomic and Molecular Physics, Solid State Physics, Nuclear and Particle Physics, Physics & Electronics Practical (ANDC)

Publications Profile

PAPERS PUBLISHED IN INTERNATIONAL/NATIONAL JOURNALS

1. “*Writing Mathematical Theorems: Towards an Innovative Pedagogy*” Indian Journal of Science and Technology, Volume 14, Issue 15, Pages 1205-1211, April 2021.
Author: Pankaj Tyagi
2. “*Parenting Gifted Children: Voices from India*” Magazine PHP (Parenting for high potential), Volume 7, Issue 4, December 2019, Published by National Association for Gifted Children, Washington, DC, USA
Authors: Jyoti Sharma, Shobha Bagai, Pankaj Tyagi and Bibhu Biswal
3. “*Triggering Innovative Output through Hands-On Learning at Undergraduate Level*” International Journal of Interdisciplinary Research and Innovations, Vol. 6, Issue 2, pp: (126-133), Month: April - June 2018 (ISSN: 2348-1218 (print), 2348-1226 (online))
Author: Pankaj Tyagi
4. “*Multiple dimensions of functional relevance of genosensors*”, INTEGRATED FERROELECTRICS, 2017, VOL.185,134-143 (ISSN: 1058-4587 (Print) 1607-8489 (Online)), Publisher: Taylor and Francis
Authors: Mahima Kaushik, Sonia, Swati Mahendru, Pankaj Tyagi & Shrikant Kukreti
5. “*Optical band gap demarcation around 2.15 eV depending on preferred orientation growth in red HgI₂ films*”, Physica B 510 (2017) 1–6 Publisher: Elsevier
Author: Pankaj Tyagi
6. “*Trig-Disc: An innovative device for determination of values of trigonometric functions with single measurement*” International Journal of Innovation and Scientific Research, Vol. 27 No. 1 Oct. 2016, pp. 216-224^[1]_[SEP], Publisher: Innovative Space of Scientific Research Journals, Morocco
Authors: Pankaj Tyagi, Jyoti Sharma, Kamal Ranjan, Vikas Tomar and R. Tripathi
7. “*Designing of a Basic Mathematical Kit to Assist Mathematical Skill Development Among Children with Autism*” International Journal of Advanced Research in Education & Technology Vol. 3, Issue 3 (July - Sept. 2016) , pp. 153-158
Authors: Himanshi Vashishth, Sangeeta, Jyoti Sharma, Pankaj Tyagi^[1]_[SEP]
8. “*Effects of in-situ heat-treatment on residual stress dependent optical properties of ZnI₂ thin films*” Indian Journal of Science and Technology, Vol 9(3), DOI: 10.17485 /ijst/2016/ v9i3 /80489, January 2016
Author: Pankaj Tyagi
9. “*Development of Target-Group Specific Innovative Android-Based Mathematics Educational Modules*”^[1]_[SEP] DU Journal of Undergraduate Research and Innovation (2015)^[1]_[SEP], Publishers: University of Delhi, India
Authors: Shikhar Sharma , Raghavendra Tripathi, Pankaj Tyagi
10. “*Revival and Innovations in Mathematics Pedagogy: A Case Study*” International Journal of Innovative Trends in Engineering, Volume- 01, Number-01, 13-16, (2014)^[1]_[SEP], Publishers: Foundation of Modern Research, India
Authors: Jyoti Sharma and Pankaj Tyagi
11. “*Dependence of optical band gap on residual stress in group IIB iodide (ZnI₂, CdI₂, HgI₂) Films*” Integrated Ferroelectrics, 122:1, 52 -62 (2010) , Publisher: Taylor and Francis
Authors: Pankaj Tyagi, R K Misra , N.C.Mehra & A.G. Vedeshwar
12. “*Excitonic absorption in ZnI₂ films*” Journal of Applied Physics 100 083522(1-6) (2006), Publisher: American Institute of Physics
Authors: A. G. Vedeshwar and Pankaj Tyagi
13. “*Occurrence of hysteresis-like behavior of Sb₂Te₃ film in dynamical measurement of heating-cooling cycle*” Physica B 362 158-166 (2005), Publisher: Elsevier
Authors: P. Arun, Pankaj Tyagi and A. G.Vedeshwar
14. “*Effect of residual stress on the optical properties of CdI₂ films*”, Physical Review B, 66, 075422 (1-8) (2002) Publisher: The American Physical Society

- Authors: Pankaj Tyagi and A. G. Vedeshwar
15. “Residual stress dependent optical properties of ZnI₂ films” Physica Status Solidi (a), 191, 633-642 (2002), Publisher: Wiley-VCH, Berlin
Authors: Pankaj Tyagi and A. G. Vedeshwar
 16. “Grain size dependent optical properties of CdI₂ films”, The European Physical Journal of Applied Physics, 19, 3-13 (2002) Publisher: EDP Sciences
Authors: Pankaj Tyagi and A. G. Vedeshwar
 17. “Large grain size dependence of the resistance of polycrystalline films” Physica B 322, 289-296 (2002) Publisher: Elsevier
Authors: P. Arun, Pankaj Tyagi and A. G. Vedeshwar
 18. “Anisotropic optical band gap of (102) - and (002) - oriented films of red HgI₂”, Physical Review B 63, 245315 (1-6) (2001), Publisher: The American Physical Society
Authors: Pankaj Tyagi and A. G. Vedeshwar
 19. “Thickness dependent optical properties of CdI₂ films”, Physica B 304, 166-174, (2001), Publisher: Elsevier
Authors: Pankaj Tyagi, A. G. Vedeshwar and N. C. Mehra
 20. “Grain size dependent optical band gap of CdI₂ films”, Bull. Mater. Sci. 24(3), 297-300 (2001), Publisher: Indian Academy of Sciences
Author: Pankaj Tyagi and A. G. Vedeshwar
 21. “Optical properties of ZnI₂ films”, Physical Review B 64, 245406(1-7) (2001), Publisher: The American Physical Society.
Authors: Pankaj Tyagi and A. G. Vedeshwar
 22. “Aging effects of Sb₂Te₃ thin films” Physica B 307, 105-110 (2001), Publisher: Elsevier
Authors: P. Arun, Pankaj Tyagi, A. G. Vedeshwar and Vinod Kumar Paliwal

II. PAPERS PUBLISHED IN NATIONAL/INTERNATIONAL CONFERENCES

23. “Study on effect of argon ion irradiation on Sb₂Se₃ thin films” International Conference on Electron Microscopy (EMSI-2014), July 7-11, 2014, University of Delhi, Delhi, ^[1]_{SEP}
Author: Pankaj Tyagi
24. “Anisotropic nature of optical band gap of SrI₂ thin films” “International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials ” (ICWNCN-2012), pp – 203-204, March 13-16th, 2012 by Department of Physics & Astrophysics, University of Delhi, Delhi, India
Author: Pankaj Tyagi*, Vikas Gulia, N.C.Mehra & A.G. Vedeshwar
25. “Nano-Tubes and Tapes like formation in heat treated PbI₂ thin films” in “International Conference on Electron Nanoscopy ” (EMSI-2011), pp – 333-334, July 6-8th, 2011 by Defence Metallurgical Research Laboratory (DMRL), Hyderabad, India.
Author: Pankaj Tyagi*, A.G. Vedeshwar, V. Gulia & N.C.Mehra
26. “Nucleation and Growth in PbI₂ thin films” in “International Conference on Advances in Electron Microscopy and Related Techniques” (EMSI-2010), pp – 180-181, March 8-10th, 2010 at Bhabha Atomic Research Centre (BARC), Mumbai, India.
Author: Pankaj Tyagi, A.G. Vedeshwar, V. Gulia & N.C.Mehra
27. “Single crystal growth of BiI₃ by thermal evaporation: TEM investigations” National Conference on Electron Microscopy & Allied Fields (EMSI-2009), pp-83-84, January 17-20, 2009, Bundelkhand University, Jhansi.
Author: Pankaj Tyagi, Chhavi Ranjan, Karnik Pandya, N.C.Mehra & A.G. Vedeshwar
28. “Morphology of different (hkl) oriented films of some metal iodides” National Conference on Electron Microscopy & Allied Fields (EMSI-2007), pp-82-83, November 26-28, 2007, University of

Delhi, Delhi.

Author: Pankaj Tyagi, Vinod Paliwal, Vikash Gulia, N. C. Mehra and A. G. Vedeshwar

29. “*Thickness dependent morphology of BiI₃ films*” National Conference on Electron Microscopy & Allied Fields (EMSI-2007), pp-86-87, November 26-28, 2007, University of Delhi, Delhi.
Author: Karnik Pandya, C. Ranjan, Pankaj Tyagi, N. C. Mehra and A. G. Vedeshwar
30. “Morphological study of argon ion irradiated Sb₂Se₃ films in a dense plasma focus device” Proceedings of 2nd International conference on current developments in atomic, molecular and optical physics with applications (CDAMOP), March 21-23, 2006, University of Delhi, Delhi
Author: Pankaj Tyagi, N. C. Mehra and A. G. Vedeshwar
31. “*Laser induced exit surface damage morphology in Yttrium Aluminum Phosphate*” XXVI Annual Conference on Electron Microscopy & Allied Fields, (EMSI-2003), April 16-18, 2003, CPRI, Shimla (H.P.)
Author: Amit Garg, Avinashi Kapoor, K.N. Tripathi, Pankaj Tyagi and N. C. Mehra
32. “*Faster optical data storage in Sb₂Te₃ films*” XXVI Annual Conference on Electron Microscopy & Allied Fields, (EMSI-2003), April 16-18, 2003, CPRI, Shimla (H.P.)
Author: Pankaj Tyagi, A. G. Vedeshwar, V.K.Paliwal, Amit Garg and N. C. Mehra
33. “*Experimental observation of energy band gap variation with grain size for CdI₂ films*” XXVI Annual Conference on Electron Microscopy & Allied Fields, (EMSI-2003), April 16-18, 2003, CPRI, Shimla (H.P.)
Author: Pankaj Tyagi, A. G. Vedeshwar, V.K.Paliwal, Amit Garg and N. C. Mehra
34. “*Residual stress dependent optical properties of CdI₂ films*” XXV Annual Conference of EMSI on Electron Microscopy & Allied Fields, (EMSI-2002) Abs. No.- 95, Feb 19-22, 2002, IIT Bombay, Powai, Mumbai.
Author: Pankaj Tyagi, A. G. Vedeshwar, V.K.Paliwal and N. C. Mehra
35. “*Thickness dependent optical properties of ZnI₂ films*” XXV Annual Conference of EMSI on Electron Microscopy & Allied Fields, (EMSI-2002) Abs. No.-94, Feb 19-22, 2002, IIT Bombay, Powai, Mumbai.
Author: N. C. Mehra, Pankaj Tyagi and A. G. Vedeshwar
36. “*Excitonic absorption and its residual stress dependence in ZnI₂ films*” Proceedings of National Symposium on Science and Technology of Vacuum and Thin Films, pp-46, Sept 5-7, 2001, Indian Institute of Science, Bangalore.
Author: A.G. Vedeshwar, Pankaj Tyagi and V.K. Paliwal
37. “*Effect of heat treatment in CdI₂ films*” XXIV Annual Conference of EMSI on Electron Microscopy & Allied Fields, (EMSI-2001) pp-165, Feb 9-11, 2001, RSIC/CIL, Punjab University, Chandigarh.
Author: N. C. Mehra, Pankaj Tyagi and A. G. Vedeshwar
38. “*The growth of (102) and (002) preferred orientations of crystallites in HgI₂ films : The thickness dependence*” XXIV Annual Conference of EMSI on Electron Microscopy & Allied Fields, (EMSI-2001) pp-87-88, Feb 9-11, 2001, RSIC/CIL, Punjab University, Chandigarh.,
Author: Pankaj Tyagi, A. G. Vedeshwar and N. C. Mehra

III. BOOKS Published

39. Foundation Course “Information Technology” University of Delhi by D.V. Singh, Shailendra Kumar, Neeraj Tyagi, Pankaj Tyagi, Sanjeev Singh, Manoj Saxena, Ranjan Kumar (2014) (ISBN:978-81-7371-900-4)^[1]_[SEP]

- Publisher: Universities Press, Hyderabad, India
40. “I Discover: A Workbook for ICSE Physics Class 8” by Pankaj Tyagi & Rahul Mehra (2013)
(ISBN: 978-1-107-67192-8)
Publisher: Cambridge University Press, New Delhi, India
41. “I Discover: A Workbook for ICSE Physics Class 7” by Pankaj Tyagi & Rahul Mehra (2013)
(ISBN: 978-1-107-69930-4)
Publisher: Cambridge University Press, New Delhi, India
42. “I Discover: A Workbook for ICSE Physics Class 6” by Pankaj Tyagi & Rahul Mehra (2013)
(ISBN: 978-1-107-69004-2)
Publisher: Cambridge University Press, New Delhi, India
43. “I Discover: A Textbook for ICSE Physics Class 8” by Pankaj Tyagi & Rahul Mehra (2012)
(ISBN: 978-1-107-66922-2)
Publisher: Cambridge University Press, New Delhi, India
44. “I Discover: A Textbook for ICSE Physics Class 7” by Pankaj Tyagi & Rahul Mehra (2012)
(ISBN: 978-1-107-68127-9)
Publisher: Cambridge University Press, New Delhi, India
45. “I Discover: A Textbook for ICSE Physics Class 6” by Pankaj Tyagi & Rahul Mehra (2012)
(ISBN: 978-1-107-68412-6)
Publisher: Cambridge University Press, New Delhi, India
46. “Visualised Science (Term I) –CBSE X” by P N Kapil, Pankaj Tyagi, Sarita Kumar (2011)
(ISBN: 978-81-8350-352-5)
Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi
47. “Visualised Science (Term II) –CBSE X” by P N Kapil, Pankaj Tyagi, Sarita Kumar (2011)
(ISBN: 978-81-8350-353-2)
Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi
48. “Visualised Science (Term I) –CBSE IX” by P N Kapil, Pankaj Tyagi, Sarita Kumar (2011)
(ISBN: 978-81-8350-354-9)
Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi
49. “Visualised Science (Term II) –CBSE IX” by P N Kapil, Pankaj Tyagi, Sarita Kumar (2011)
(ISBN: 978-81-8350-355-6)
Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi
50. “I Explore: A Science Textbook for Class 8” by Shobhita Johri, Pankaj Tyagi & Parminder Chopra (2010) (ISBN: 978-0-521-18602-5) (with CD ROM)
Publisher: Cambridge University Press, New Delhi, India
51. “I Explore: A Science Textbook for Class 7” by Shobhita Johri, Pankaj Tyagi & Parminder Chopra (2010) (ISBN: 978-0-521-18600-1) (with CD ROM)
Publisher: Cambridge University Press, New Delhi, India
52. “I Explore: A Science Textbook for Class 6” by Shobhita Johri, Pankaj Tyagi & Parminder Chopra (2010) (ISBN: 978-0-521-18597-4) (with CD ROM)
Publisher: Cambridge University Press, New Delhi, India
53. “Self Tutor : Visualised Science – CBSE X” (Term I) by Pankaj Tyagi, Vinod Kumar & Beena Jain (2009) (ISBN: 978-81-8350-289-4)
Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi
54. “Self Tutor : Visualised Science – CBSE X” (Term II) by Pankaj Tyagi, Vinod Kumar & Beena

Jain (2009) (ISBN: 978-81-8350-343-3)

Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi

55. “Visualised Physics – CBSE IX” by Pankaj Tyagi (2009) (ISBN: 978-81-8350-277-6)

Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi

56. “Global Warming: Ek Karva Sach ”(in HINDI) by Pankaj Tyagi, (2009) (ISBN: 978-81-8838-745-8) Publisher: Pallav Prakashan, Delhi

57. “Email – Aadhunik Chithi ” (in HINDI) by Pankaj Tyagi, (2009) (ISBN: 978-81-8865-231-0)

Publisher: Shanti Prakashan, Delhi

58. “Visualised Physics – CBSE X” by Pankaj Tyagi (2008) (ISBN: 978-81-8350-235-0)

Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi

59. “Self Tutor Science Physics – CBSE X” by Pankaj Tyagi, (2007) (ISBN: 978-81-8350-228-8)

Publisher: Sultan Chand and Son(s) Pvt Ltd.- Educational Publishers , Delhi

60. “Ekkisvin Sadi Ka Vigyan” (in HINDI) by Pankaj Tyagi, (2002) (ISBN: 81-88387-19-3)

Publisher: Pallav Prakashan, Delhi

Conference Organization and Participation

1. Participated in webinar on NEP-Open Digital Education organised by ILLL, DU, 12.10.2020
2. Participated in e-Yantra Symposium at ERTS Lab, Department of CSE, IIT Bombay, Powai, Mumbai from 5-6th April 2019.
3. Participated in a workshop on Revamping Exam Standards in India: Improving Evaluation and Assessments for Higher Education and Professionals held on 30 November 2018 hosted by India-ATP in Delhi.
4. Participated in workshop of Design Innovation Centers during Festival of innovation and Entrepreneurship 2018 held at Rashtrapati Bhavan, New Delhi on 22 March 2018.
5. Participated in International Conference on Technologically Advanced Materials (ICTAM) held in University of Delhi from November 7-11, 2016
6. Keynote Speaker in 2nd International Conference on Science, Technology and Management organized by Conference World AR Research Publication and held on 27th September 2015 at University of Delhi. Title of talk “Innovation at undergraduate Level: Need for Industrial and Academic Linkage”.
7. Participated in the “World Conference on Global Innovation” organized by Human Life Advancement Foundation (HLAF) held on 27th March 2013 at Putra World Trade Centre, Kuala Lumpur, Malaysia.
8. Participated in the International Conference “The Legacy of Srinivasa Ramanujan” organized by University of Delhi from 17-22 December 2012 and worked as member of Local Organizing Committee.
9. Participated in the Academic Congress “Enabling the Young : Redefining Education” organized by University of Delhi from September 6-7, 2012 and acted as rapporteur for the session “Integrating Mind, Body, and Heart” with Mr. Sanjeev Bhargava, Founder, SEHER, and Mr. K. Srikanth, Chief Selector of the Indian Cricket team as speaker.
10. Acted as Co-convener in organizing “International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials ” (ICWNCN-2012), March 13-16th , 2012 by Department of Physics & Astrophysics, University of Delhi, Delhi, India
11. Acted as Co-convener in organizing “International Conference on Electroceramic (ICE-2009)”, December 13-17th 2009, Department of Physics & Astrophysics, University of Delhi

Research Projects (Major Grants/Research Collaboration)

1. Co-PI in a project “Establishing Process Based Identification and Mentoring Practices for Potentially Gifted Children in Science and Mathematics” funded by DST through PSA, Gol (2014-2017) (Grant Rs.1.27 Crore) ^{SEP}

2. PI in Innovation Project of University of Delhi for the project “Innovatively designed physics experimental modules with link to interactive website and mobile apps”: 2015-16 (Grant Rs. 5.00 Lakh)
3. PI in Innovation Project of University of Delhi for the project “Designing innovative working models to explain concepts of physics and mathematics along with IT based module”: 2013-14 (Grant of Rs. 7.50 Lakh)
4. Co-PI in Innovation Project of University of Delhi under the scheme “Programs for Enhancing undergraduate Learning and Teaching Experiences through Innovative Projects” for the project titled “IT model for parking space management: optimal and efficient parking-retrieval of vehicles”: 2012-13 (Grant of Rs. 10 Lakh)

Awards and other Distinctions

1. “Teaching Excellence Award for Innovation” by University of Delhi during academic session 2014-15 for Innovation Project “Designing Innovative Working Models to Explain concepts of Physics and Mathematics along with IT based modules”.
2. Represented University of Delhi at 2nd National Knowledge Network Workshop Entitled “Enhancing Research Collaborations through NKN” held from 17-19th October 2013 at IISc Bangalore.
3. Participated as Invited Guest to the official launching of the Human Life Advancement Foundation & World Conference on Global Innovation held on 27th March 2013 at Putra World Trade Centre, Kuala Lumpur, Malaysia.
4. Participated in the Jury Process of INSPIRE AWARD National Level Exhibition and Project Competition (NLEPC) conducted by Department of Science and Technology (DST), Ministry of Science and Technology, Government of India held at New Delhi in 2014, 2013, 2012.
5. Nominated for “The 2006 Man of The Year’s Commemorative Medal” by Board of International Research of the American Biographical Institute (ABI), North Carolina, USA.
6. Nominated for “The 2005 Man of The Year’s Commemorative Medal” by Board of International Research of the American Biographical Institute (ABI), North Carolina, USA.
7. Graduate Aptitude Test in Engineering (GATE) – 1993, Percentile Score 88.48
8. Qualified at Joint CSIR/UGC National Level Test for Junior Research Fellowship (JRF) and Eligibility for Lectureships (NET) -1993
9. Delhi University Science Meritorious Award 1990-91.
10. Certificate of Junior National Mathematics Olympiad Contest-1986

Association With Professional Bodies

1. Life membership of “Ramanujan Mathematical Society” (Registered No. 64/1985), Thiruchippali, India (Membership No. 1139)
2. Life membership of “Electron Microscope Society of India (EMSIS)” (Registered No. SC/5228), India (Membership No. LM-476)
3. Life membership of “Society for Technologically Advanced Materials of India” (STAMI- Regd. No. MH/589/07).
4. Honorary appointment as member of the Research Board of Advisors, The American Biographical Institute (ABI), North Carolina, USA since 2003.
5. Guest faculty in University of Petroleum & Energy Studies (UPES), Delhi for B.Tech. during academic session 2003-04.
6. Guest faculty in Keshav Mahavidyalaya, University of Delhi, Delhi for B.Sc.(H) Electronics and B.Sc.(G) during the academic session 2003-04, 2004-05, 2005-06.

Other Activities

1. Popular Science Lecture (online), Topic "**Let's Innovate to Learn**" on the occasion of National Technology Day, National Science Centre, Delhi on **11 May 2021**.
2. Online Talk on "**Innovation & Research at Undergraduate Level**" for Physics and Electronics Society, Hans Raj College, University of Delhi on **25 February 2021**.

3. Presented an online session on "**Innovative Teaching: Simplifying Learning**" on **21 August, 2020** on series #LetsTalkEducation 3.0" organised by Delhi Government Education Departments' Educational platform "Education for Future" for their teachers.
4. On **April 25, 2019** Prof. Pankaj Tyagi and Prof. Shobha Bagai from CIC, DU Conducted a workshop session on "**Understanding problem identification process for entrepreneurs**" at Shyam Lal College, University of Delhi.
5. Delivered a lecture on "Innovative Pedagogy: Must for Innovation" in 5th Refresher Course in Contemporary Studies (Interdisciplinary) on January 16, 2019 at UGC-HRD Centre, JNU, Delhi.
6. Invited Talk on "*New Approaches to Learning in the Classroom*" in programme titled Professional Development in Education Management organized by the DPS Society on, 13 June 2018 at the DPS Society's HRD Centre, Sector -3, Phase-1, Dwarka, New Delhi. (June 2018)
7. Member of panel of Judges for Innovation Fair at National science Centre, New Delhi (Jan 2018)
8. Member of various committees at Cluster Innovation Centre (July 2018- June 2019)
 - Departmental Purchase Committee
 - Infrastructure and Space Committee
 - Computer and Website Committee
 - Anti-Ragging Committee
 - Academic Committee (Convener)
9. Invited Talk in a seminar on '*Experiment with Light*' on 2.2.2016 at Kendriya Vidyalaya, Shalimar Bagh, Delhi for JNNSMEE Regional Science exhibition.



01.07.2021

Signature of Faculty Member