

Title	Prof.	First Name	PANKAJ	Last Name	TYAGI	Photograph
Designa	ation	PROFESSOR				
Address		Cluster Innovation Centre				
Office:		University Stadium				
		University of Delhi, Delhi-110007				
		N-13, Second Floor, Riviera Apartment,				
Residence:		Mall Road, Delhi -110054				
Phone No Office		011-27666702				
Residence		-				
Mobile		9810726750				
Email		pankajtyagi@cic.du.ac.in				
		pankajtyagicicdu@gmail.com				
Web-Page		https://sites.google.com/cic.du.ac.in/pankajtyagi				
		https://cic.du	ı.ac.in			
Educational Qualifications						
Degree		Institution				Year
Ph.D.		Department of Physics & Astrophysics,			2002	
		University of Delhi				
PG: M.Sc. (Physics		Department of Physics & Astrophysics			1993	
with Electronics)		University of Delhi				
UG: B.Sc. (Hons)		Hans Raj College, University of Delhi			1991	
Physics						

Career Profile

- 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. Nominated as a member of Planning and Programming Committee (PPC) of National Science Centre, Delhi for a period of 02 years from 05.04.2023
- 2. Vice Chancellors Nominee in Selection Committee for appointment of Associate Professor Level (Department of Political Science) at Sri Venkateshwara College, University of Delhi, 2023
- 3. Vice Chancellors Nominee in Selection Committee for appointment of Associate Professor Level (Department of Computer Science) at Ram Lal Anand College, University of Delhi, 2023
- 4. Member of Screening Committee for selection of Assistant Professors in DU, 2022
- 5. Member of Selection Committee for Scientist D and Scientist E at STPI, New Delhi 2021
- 6. Member of Selection Committee for Promotion to Professor Level in Dayal Singh College, DU 2021
- 7. Member of Selection Committee for Promotion to Associate Professor Level in Miranda House DU, 2021
- 8. 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
- 9. Member DU's 97th Annual Convocation Webcast and Digital Requirement Committee, 2021
- 10. Member of Selection Committee for Scientist E at STPI, 2020
- 11. 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.
- 12. Member of screening committee for shortlisting entries for Innovation Festival 2019 held at National Science Centre, Delhi from 7th to 9th February 2019.
- 13. Member of Local organzing 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.
- 14. Member of committee of the Swachh Bharat Summer Internship Programme, University of Delhi -2018
- 15. Member of the panel of judges for Innovation Fair held at National Science Centre, Delhi on 21 January 2018.
- 16. Coordinator for QUEST-2017, Science Education program conducted by Centre for Science Education and Communication, University of Delhi.
- 17. Observer in Delhi University Entrance Test 2017
- 18. Member in panel of examiners of IGNOU, 2017
- 19. Member of committee to select Innovators for Innovation Festival 2017 at National Science Centre, Delhi.
- 20. Jury of 6th National Level Exhibition and Project Competitions (NLEPC) 2016 of DST-INSPIRE AWARD at NPL New Delhi during December 10-11, 2016
- 21. Judged Atal Tinkering Labs (ATL) Innovation Challenge organized under Atal Innovation Mission by NITI Aayog, Government of India in Delhi in Nov 2016
- 22. Member of Advisory Board for Software Technology Park of India (STPI) Gurgaon since July 2016 till date.
- 23. Member of Governing body of Swami Shraddhanand College, University of Delhi from 26.02.2016 till 25.08.2016
- 24. 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.

- 25. 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.
- 26. 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.
- 27. Member of Technical Committee to monitor VPN connectivity in colleges of University of Delhi and North & South Campus from March 2015 till date.
- 28. Member of Screening Committee for promotion of Group 'A' S&T officers under MFCS at Software Technology Park of India, Delhi in May 2016.
- 29. Member of the Organizing Committee University of Delhi's Cultural & Academic Program "Antardhvani" 2015, 2014, 2013
- 30. Coach Coordinator in "Gyanodaya Express III: An Educational Train Journey of University of Delhi" from 02-08 September 2013.
- 31. Resource Person in the Workshops on Foundation Course "Building Mathematical Ability" (Five Cycles: 15 days: May-July 2013) [5]
- 32. Resource Person in the Workshops on Foundation Course "Information Technology" (Five Cycles: 15 days: May-July 2013).
- 33. Nominated Member of Empowered Committee for framing curriculum/syllabus of three Foundation Courses under FYUP: Information Technology, Building Mathematical Ability and Science & Life, 2013.
- 34. Observer for DUSU Polls 2013, 2012. [EP]
- 35. Fellow in Physics at Institute of Lifelong Learning (ILLL), University of Delhi From Jan 2012 till July 2012.
- 36. 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.
- 37. 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.
- 38. Observer, for conducting FMS-MBA-2011 Examination, University of Delhi, Delhi-110007
- 39. 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.
- 40. 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

- Value Addition Course Vedic Mathematics-I (DU)
- 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. "Innovative Science Practices for Mentoring Potentially Gifted Students in India" published in Indian Journal of Science and Technology, Volume 15, Issue 25, Pages 1234-1243, July 2022. Author: Pankaj Tyagi
- 2. "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
- 3. "Parenting Gifted Children: Voices from India" Magzine 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

- 4. "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
- 5. "Multiple dimensions of functional relevance of genosensors", INTEGRATED FERROELECTRICS, 2017, VOL.185,134-143 (ISSN: 1058-4587 (Print) 1607-8489 (Online)), Publisher: Taylor and
 - Authors: Mahima Kaushik, Sonia, Swati Mahendru, Pankaj Tyagi & Shrikant Kukreti
- 6. "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

Francis

- 7. "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 [SEP], Publisher: Innovative Space of Scientific Research Journals, Morocco Authors: Pankaj Tyagi, Jyoti Sharma, Kamal Ranjan, Vikas Tomar and R. Tripathi
- 8. "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 Tyagisep

9. "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

10. "Development of Target-Group Specific Innovative Android-Based Mathematics Educational Modules" DU Journal of Undergraduate Research and Innovation (2015) Publishers: University of Delhi, India

Authors: Shikhar Sharma, Raghavendra Tripathi, Pankaj Tyagi

11. "Revival and Innovations in Mathematics Pedagogy: A Case Study" International Journal of Innovative Trends in Engineering, Volume- 01, Number-01, 13-16, (2014) Publishers: Foundation of Modern Research, India

Authors: Jyoti Sharma and Pankaj Tyagi

12. "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

13. "Excitonic absorption in ZnI₂ films" Journal of Applied Physics 100 083522(1-6) (2006), Publisher: American Institute of Physics

Authors: A. G. Vedsehwar and Pankaj Tyagi

14. "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

15. "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

16. *"Residual stress dependent optical properties of ZnI*₂ *films"* Physica Status Solidi (a), 191, 633-642 (2002), Publisher: Wiley-VCH, Berlin

Authors: Pankaj Tyagi and A. G. Vedeshwar

17. "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

18. "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

19. "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

20. "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

21. "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

22. "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

23. "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

24. "Structural, electronic, optical and thermodynamic properties of tungsten diselenide (WSe₂) under pressure: First-principle Calculations" **International Conference** on Electron Microscopy & XLI Annual Meeting of Electron Microscope Society of India, EMSI-2023 held at University of Delhi, India, during *February 08 - 10, 2023*

Authors: Pankaj Tyagi, Pradeep Kumarand Agnikumar G. Vedeshwar

- 25. "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] Author: Pankaj Tyagi
- 26. "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, India

- Author: Pankaj Tyagi*, Vikas Gulia, N.C.Mehra & A.G. Vedeshwar
- 27. "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
- 28. "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
- 29. "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
- 30. "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
- 31. "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
- 32. "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
- 33. "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
- 34. *"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
- 35. "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
- 36. "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
- 37. "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
- 38. "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

39. "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

40. "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

41. 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]

Publisher: Universities Press, Hyderabad, India

42. "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

43. "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

44. "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

45. "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

46. "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

47. "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

48. "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

49. "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

50. "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

51. "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

52. "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

53. "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

54. "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

55. "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

56. "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

57. "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

- 58. "Global Warming: Ek Karva Sach" (in HINDI) by Pankaj Tyagi, (2009) (ISBN: 978-81-8838-745-8) Publisher: Pallav Prakashan, Delhi
- 59. "Email Aadhunik Chithi" (in HINDI) by Pankaj Tyagi, (2009) (ISBN: 978-81-8865-231-0) Publisher: Shanti Prakashan, Delhi
- 60. "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
- 61. "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
- 62. "Ekkisvin Sadi Ka Vigyan" (in HINDI) by Pankaj Tyagi, (2002) (ISBN: 81-88387-19-3) Publisher: Pallav Prakashan, Delhi

Conference Organization and Participation

- 1. As special invitee for Alumni Interaction with NAAC (National Assessment and Accreditation Council) Peer Team at Hans Raj College, University of Delhi on 27 April 2023.
- 2. Delivered Inaugural **lecture of** QUEST 23, Fest of Physics Society of Maitreyi College, University of Delhi on**"Innovations: Self Learning" on** 23 March 2023.
- 3. As Convener, organised National Seminar on Innovation in Higher Education through Public Private Partnership (PPP) Model at Cluster Innovation Centre, University of Delhi from 13-15 March 2023.
- 4. As Convener, organised **International Conference** on Electron Microscopy & XLI Annual Meeting of Electron Microscope Society of India, EMSI-2023 held at University of Delhi, India, during *February 08 10, 2023*
- 5. As Co-PI, participated in Delhi Effective Education and Pedagogy Cluster (DEEP-C)'s "Blue Planet Sustainability Fellowships" three-day orientation program held at Design Innovation Centre, University of Delhi from 18-20 January 2023.

- 6. **Talk** on **"Innovation and Mathematics"** on National Mathematics Day 2022 at Cluster Innovation Centre, University of Delhi, Delhi on 22 December 2022.
- 7. Conducted an hands-on **Workshop** on **"Entrepreneurship Skill, Attitude and Behaviour Development"** on 12th December, 2022 organised by Institution's Innovation Council (IIC) of Ramanujan College, University of Delhi with undergraduate students.
- 8. Online Popular Lecture on "Play: Innovate:: Learn: Earn" as Chief Guest in National e-Conference on Empowering Rural Children in science and Technology for Innovation Leading to Entrepreneurship organised by Institute of Management and Advanced Studies (IMAS), Lucknow on 30 June 2021.
- 9. Popular Science Lecture (online), Topic "Let's Innovate to Learn" on the occasion of National Technology Day, Organised by National Science Centre, Delhi on 11 May 2021
- 10. Participated in a Webinar on Academic Leadership Program for Academicians on the theme "Role of Teachers in National Education Ploicy: Awareness, Orientation, Challenges & Responses on 22 March 2021 organised by Bhartiya Shikshan Mandal & NITI AYOG in collaboration with CPDHE, University of Delhi.
- 11. Online Talk on "Innovation & Research at Undergraduate Level" for Physics and Electronics Society, Hans Raj College, University of Delhi, 2021.
- 12. Participated in webinar on NEP-Open Digital Education organised by ILLL, DU, 12.10.2020
- 13. Participated in e-Yantra Symposium at ERTS Lab, Department of CSE, IIT Bombay, Powai, Mumbai from 5-6th April 2019.
- 14. 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.
- 15. Participated in workshop of Design Innovation Centers during Festival of innovation and Entrepreneurship 2018 held at Rashtrapati Bhavan, New Delhi on 22 March 2018.
- 16. Participated in International Conference on Technologically Advanced Materials (ICTAM) held in University of Delhi from November 7-11, 2016
- 17. 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".
- 18. 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.
- 19. 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.
- 20. 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. Srikkanth, Chief Selector of the Indian Cricket team as speaker.
- 21. 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
- 22. 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, GoI (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

- Under Commonwealth of Learning, on 29 May 2022 completed an online course on "
 Introduction to AI for IT and Non-IT professionals" offered by Virtual University for Small States of the Commonwealth.
- 2. "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".
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. Graduate Aptitude Test in Engineering (GATE) 1993, Percentile Score 88.48
- 9. Qualified at Joint CSIR/UGC National Level Test for Junior Research Fellowship (JRF) and Eligibility for Lectureships (NET) -1993
- 10. Delhi University Science Meritorious Award 1990-91.
- 11. 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 (EMSI)" (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 Mahavidhyalaya, 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

- Under Commonwealth of Learning, on 29 May 2022 completed an online course on " Introduction to AI for IT and Non-IT professionals" offered by Virtual University for Small States of the Commonwealth.
- 2. 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.
- 3. Online Talk on "Innovation & Research at Undergraduate Level" for Physics and Electronics Society, Hans Raj College, University of Delhi on 25 February 2021.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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)
- 8. Member of panel of Judges for Innovation Fair at National science Centre, New Delhi (Jan 2018)
- 9. Member of various committees at Cluster Innovation Centre (July 2018- June 2019)
- 10. Departmental Purchase Committee
- 11. Infrastructure and Space Committee
- 12. Computer and Website Committee
- 13. Anti-Ragging Committee
- 14. Academic Committee (Convener)
- 15. Invited Talk in a seminar on 'Experiment with Light" on 2.2.2016 at Kendriya Vidyalaya, Shalimar Bagh, Delhi for JNNSMEE Regional Science exhibition.

Signature Prof. Pankaj Tyagi July 2023