

Curriculum Vitae

Dr. Vijay Kumar Yadav

Assistant Professor

Dr. A.P.J. Abdul Kalam Institute of Forensic Science

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ADMINISTRATIVE EXPERIENCE

- Coordinator/Head, Dr. A.P.J. Abdul Kalam Institute of Forensic Science and Criminology, Bundelkhand University, Jhansi.(2018-2021)
- Member Board of Studies Committee, Dr. A.P.J. Abdul Kalam Institute of Forensic Science and Criminology, Bundelkhand University, Jhansi.(2015 onwards)
- Assistant Proctor, Bundelkhand University, Jhansi. (2018 onwards)
- Coordinator, Training, Placement Cell & Alumni Affairs, Bundelkhand University, Jhansi. (2022 onwards)
- Assistant Superintendent of Examination in Semester and Annual Examination, Bundelkhand University, Jhansi.
- Member of Flying Squad Team in Semester and Annual Examination, Bundelkhand University, Jhansi.

ACADEMIC EXPERIENCE

- 15 years teaching experience in undergraduate and post graduate students.
- 07 years research experience in the field of Forensic Science.
- Supervised more than 92 P.G. Forensic Science Students in their dissertation Thesis.
- Convener of Board of Studies, (BOS), Dr. A.P.J. Abdul Kalam Institute of Forensic Science and Criminology, Bundelkhand University, Jhansi.
- Member of board of studies committee as subject expert, Rabindranath Tagore University, Bhopal M.P.
- Member of board of studies committee as subject expert, Vivekananda Global University, Jaipur, Rajasthan

EDUCATIONAL QUALIFICATIONS

- Ph.D. from Bundelkhand University, Jhansi.
- Qualified UGC-NET Forensic Science.
- M.Sc. Forensic Science from Bundelkhand University, Jhansi.
- B.Sc. from V.B.S. Purvanchal University, Jaunpur with Zoology and Chemistry.

ACHIEVEMENTS/CO-CURRICULAR ACTIVITIES

1. Actively participated as Team Leader in Central Zone Youth Festival organized by Berhampur University, Orissa during November 25-29, 2014.
2. Conducted an Awareness program on “Need of Forensic Science” in CJM Compound, Rath, Uttar Pradesh on August 08, 2015.
3. Actively participated as Co- convener in Literary Events Committee in the Inter University Central Zone Youth Festival organized by Bundelkhand University, Jhansi during 19-23 Nov 2015.
4. Attached as content writer to a project of I.G.N.O.U. on e-Content Development for one year Post Graduate Diploma in Forensic Anthropology.
5. Actively participated in Bundelkhand University Cricket Team in Inter Faculty Annual Sport Meet, from 29 Aug- 06 Sept. 2016.

RESEARCH INTEREST

- Forensic Chemistry & Toxicology
- Fire & Arson Investigation
- Forensic Ballistics and GSR
- Forensic Chemical Sciences

PUBLICATION PROFILE

1. Ajay Kumar Gautam, **Vijay Yadav**, Anurag Sharma, Sameer S. Bhagyawant, Sanjeev K Gupta, Deepa Verma “Proteomic Approaches vis-a-vis Forensic Evidence Analysis: Forensic Proteomics a Valuable Tool” *Indian Journal of Forensic Medicine and Toxicology*, Volume 17, No. 1, January-March 2023, <https://doi.org/10.37506/ijfmt.v17i1.18899>
2. Prajval Pratap Singh , Sunil Kumar Rai, Gyaneshwer Chaubey, **Vijay Kumar Yadav**, Serosurveillance Consortium BHU † “Estimation of real COVID-19 cases in India during the first wave” *IJID Regions*, Volume 6, March 2023, Pages 80-83. <https://doi.org/10.1016/j.ijregi.2023.01.008>.
3. Megha Agrawal, Murali Manohar Yadav, Abhimanyu Harshey, Ankit Srivastava, **Vijay Kumar Yadav** “A Study of External Ear Morphological Variation in Central Indian Population for Genealogical Purposes” *Arab Journal of Forensic Sciences & Forensic Medicine* . 5, 1 (Jun. 2023), 31-42. <https://doi.org/10.26735/KEXU1412>.
4. Kumar Akash, Das Tanurup, Harshe Abhimanyu, Kumar Amit, **Yadav Vijay Kumar**, Dev Kapil, Srivastava Ankit ‘Restoration of mechanically obliterated credentials on high density polyethylene surfaces by combination of heat treatment and reagent polishing’” *International Journal of Medical Toxicology & Legal Medicine*. Volume : 26, Issue : 1and2, 2023, page 204-209, DOI : [10.5958/0974-4614.2023.00033.5](https://doi.org/10.5958/0974-4614.2023.00033.5)
5. Rohit Kumar Verma, Vard Nagar, Vinay Aseri, Badal Mavry, Pritam P. Pandit, Rushikesh L. Chopade, Apoorva Singh, Anubhav Singh , **Vijay Kumar Yadav**, Kamakshi Pandey, Mahipal Singh Sankhla “Zinc oxide (ZnO) nanoparticles: Synthesis properties and their forensic applications in latent fingerprints development” *Materials Today: Proceedings*, Volume 69, Part 1, 2022, Pages 36-41, <https://doi.org/10.1016/j.matpr.2022.08.074>
6. Tanurup Das, Abhimanyu Harshey, Ankit Srivastava, Kriti Nigam, **Vijay Kumar, Yadav**, Kapil Sharma and Arun Sharma (2021) “Analysis of the ex-vivo transformation of semen, saliva and urine as they dry out using ATR-FTIR spectroscopy and chemometric approach”. *Scientific Reports* 11(1) <https://doi.org/10.1038/s41598-021-91009-5>
7. **Yadav, V.K.**, Das, T., Harshey, A., Yadav, M.M., Nigam, K., Srivastava, A. (2021) “A Forensic Approach to Evaluate the Effect of Different Matrices and Extraction Solvents for the Identification of Diesel Residue in Simulated Arson by GC–MS”. *Chromatographia*. <https://doi.org/10.1007/s10337->

8. Roomi Parveen, Manoj K Verma, Kriti Nigam, **Vijay K Yadav** (2021) “Detection of Codeine in Various Caffeinated Beverages through Spot Test” International Journal of All Research Education and Scientific Methods (IJARESM) Vol. 9, Issue 7 ISSN: 2455-6211.
9. Abhimanyu Harshey, Ankit Srivastava, Tanurup Das, Kriti Nigam, Raj Shrivastava and **Vijay Kumar Yadav** (2020) “Trends in Gunshot residue detection by electrochemical methods for forensic purpose”, Journal of Analysis and Testing, Springer,
10. Amit Kumar, Ankit Srivastava, Tanurup Das, Abhimanyu Harshey, VeerRaj Saini, Akash Kumar, Md. Alim, Kriti Nigam and **Vijay Kumar Yadav** (2020) “Restoration of Obliterated Stamped Marks on Aluminum Surfaces by Metallographic Etching Technique”, Oriental Journal of Chemistry, Vol. 36, No. 3, <http://dx.doi.org/10.13005/ojc/360628>
11. Kriti Nigam, Tanurup Das, Abhimanyu Harshey, Akash Kumar, Neeti Kapoor, **Vijay Kumar Yadav** and Ankit Srivastava (2020) “Effectiveness of Talcum Powder for Decipherment of Latent Fingerprints on Various Substrates” Asian Journal of Chemistry, <https://doi.org/10.14233/ajchem.2021.22949>
12. **Vijay Kumar Yadav**, Abhimanyu Harshey, Tanurup Das, Kriti Nigam, Ankit Srivastava and Kapil Sharma (2020) “Effect of Different Matrices on the Identification of Ignitable Liquid Residue in Post Burn Arson Debris: A Multi-Derivative UV-Visible Spectrophotometric Approach” Asian Journal of Chemistry, <https://doi.org/10.14233/ajchem.2020.22902>
13. Tanurup Das, Abhimanyu Harshey, Kriti Nigam, **Vijay Kumar, Yadav**, Ankit Srivastava (2020) Analytical approaches for bloodstain aging by vibrational spectroscopy: current trends and future perspectives. Microchemical Journal. (158) 105278.
14. **Vijay Kumar Yadav**, Kriti Nigam, Ankit Srivastava (2020) “Forensic investigation of arson residue by infrared and Raman spectroscopy: From conventional to non-destructive techniques” Medicine Science and the Law, <https://doi.org/10.1177/0025802420914807>
15. Lalit Kumar Gupta, Akshay Singh, **Vijay Kumar Yadav** and Ankit Srivastava (2020) “Performance Analysis of Open Puff Steganography Tool Using Various Image Formats” SSRN electronic journal supported by Elsevier. <http://dx.doi.org/10.2139/ssrn.3550941>
16. Ankit Srivastava, **Vijay Kumar Yadav**, Kriti Nigam, Shivani Dixit, R K Kumawat, Divya Shrivastava, Pankaj Shrivastava (2019) “Genomic Portrait of population of Uttar Pradesh, India drawn with autosomal STRs and Y-STRs” Forensic Science International Genetics Supplement Series, Volume, 7, Issue 1, P 800-801 <https://doi.org/10.1016/j.fsigss.2019.10.182>
17. Ankit Srivastava, Kriti Nigam, **Vijay Kumar Yadav** and Murali Manohar Yadav (2019) “*Analysis of Diatoms of Fresh Water bodies in Manipur (India)*”, Research Review International Journal of

Multidisciplinary, Vol. 9 Issue 22 , p.p 1-5. [ISSN : 2455 – 3085]

18. Neelesh Tiwari, Tanurup Das, Abhimanyu Harshey, Sughosh Abhyankar, **Vijay Kumar Yadav**, Kriti Nigam, Vijay Raj Anand and Ankit Srivastava(2019) “*Evidential significance of multiple fracture patterns on the glass in forensic ballistics*”, Egyptian Journal of Forensic Sciences, Vol. 9 Issue 22 , p.p 1-5 [ISSN : 2090 – 5939],<https://doi.org/10.1186/s41935-019-0128-4>
19. Kriti Nigam, Ankit Srivastava, **Vijay Kumar Yadav** and Sayeed Ahmed (2019) “*Automated Tool Based on Statistical Study for Predicting Probable Medium of Education of Writers*”, Journal of Emerging Technologies and Innovative Research (JETIR), Vol. 6 Issue 4 ,p.p276-280 [ISSN : 2349-5162]
20. Ankit Srivastava, Ramkishan Kumawat, Shivani Dixit, Kamlesh Kaitholiya, Divya Shrivastava, **Vijay Kumar Yadav**, Harsh Sharma, Veena Ben Trivedi, Gyaneshwar Chaube and Pankaj Shrivastava (2019) “*Genetic data for PowerPlex 21™ autosomal and PowerPlex 23 Y-STR™ loci from population of the state of Uttar Pradesh, India*”International Journal of Legal Medicine (Springer), doi.org/10.1007/s00414-018-01993-z [ISSN : 1437-1596]
21. **Vijay Kumar Yadav**, Ankit Srivastava, Kriti Nigam and Murali Manohar Yadav (2018) “*Statistical Evaluation of Poisoning Trends in Bundelkhand Region*”, International Journal of Research and Analytical Reviews, Vol. 5 Issue 4 ,p.p 378-388 [ISSN : 2348-1269]
22. Murali Manohar Yadav, Ankit Srivastava, Kriti Nigam and **Vijay Kumar Yadav** (2018) “*Comparative Analysis of Wild Animal Hairs*”, Global Journal of Engineering Science and Researches, Vol. 5 Issue 11 ,p.p 239-245 [ISSN : 2348-8034]
23. Sughosh Abhyankar, Ankit Srivastava, **Vijay Kumar Yadav**, Kriti Nigam and Abhimanyu Harshey (2018) “*Glass Fractures Made from Different Pellet Shapes- A Preliminary Study*”, Journal of Forensic Sciences & Criminal Investigation, Vol. 8 Issue 3, p.p. 001-007 [ISSN : 2476 – 1311]
24. Abhimanyu Harshey, Ankit Srivastava, **Vijay Kumar Yadav**, Kriti Nigam, Amit Kumar and Tanurup Das (2017) “*Analysis of Glass Fracture Pattern made by .177" (4.5 mm) Caliber Air Rifle*”, Egyptian Journal of Forensic Sciences, Vol. 7 Issue 20 ,p.p 1-8 [ISSN : 2090 – 5939]
25. Murali Manohar Yadav, Kriti Nigam, Ankit Srivastava and **Vijay Kumar Yadav** (2017) “*A Preliminary Study on Frequency Distribution & Inheritance Pattern of Different Characteristics of Ear among Population of Moth Region of Jhansi District*”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol. 5 Issue X ,p.p 236-241 [ISSN : 2321-9653]
26. Bhoopendra Singh, Ila Gautam, **Vijay Kumar Yadav**, Braja Kishore Mohapatra, “*Detection of human seminal stains in one minute by modified acid phosphatase test*” European Journal of Forensic Sciences, July, 2015, DOI: 10.5455/ejfs.174414, Vol-2, Issue- 3.

27. **Vijay Kumar Yadav**, Prakash Chandra, Ankit Srivastava, Shahla Khan and Nizamul Haque Ansari (2015) “*Quantitative Variation of Metallic Elements in Water Sample by GF-AAS*”, GE- International Journal of Engineering Research, Vol.-3, Issue-2 [ISSN:2321-1717]
28. Srivastava, A. and **Yadav, V.K.** (2014) “*Extraction & Identification Of Endosulfan From Viscera, Urine & Blood By Using Different Solvent System*” US-China Law Review, Vol. 11, No. 6 [ISSN : 1548-6605]
29. Ankit Srivastava and **Vijay Kumar Yadav** (2013) “*Microscopical and Chemical Study of Cannabis Sativa*”, Journal of Forensic Research, Volume 5, Issue 1, DOI: 10.4172/2157-7145.1000210, [ISSN : 2157-7145]
30. Ankit Srivastava and **Vijay Kumar Yadav** (2014) “*Reconstruction of Stature using hand and Foot Dimensions among Indian Population*”, International Journal of Engineering Sciences & Technologies, Vol. 6, Issue 4 [ISSN: 2231-6604]

CONFERENCES/WORKSHOPS/SEMINARS: ORGANIZED

1. Organized National Conference “FORENSICON-2019” as an **Organizing Secretary** on the topic “Challenges & Innovations in Criminal Justice System” on dated February 21st – 22nd , 2019
2. Organized International Conference as an **Organizing Secretary** on the topic “Advances in Forensic DNA Technology” on dated February 22nd – 24th , 2018
3. Organized National Conference as an **Organizing Secretary** on the topic “Future Perspectives of Forensic Science in India” on dated March 09th – 10th, 2017.
4. Organized National Seminar as an **Organizing Secretary** on the topic “Role of Forensic Science in Disaster Victim Identification in Indian Perspective” on dated March 18th – 19th, 2016.
5. Member of Organizing Committee in Inter – University Central Zone Youth Festival organized by Bundelkhand University, Jhansi under the aegis of Association of Indian Universities, 19th – 23rd November, 2015.
6. Organized National Workshop as an **Organizing Secretary** on the topic “Cyber Forensic and Criminal Investigation” with the collaboration of i3indya Technologies, New Delhi funded by University Grants Commission, New Delhi on dated March 23, 2015.
7. National Seminar on Role of Forensic Science in Criminal Justice System, 04th – 05th March, 2011 organized as **Treasurer**.
8. National Seminar on Emerging Scenario in Forensic Science, 23-24 October, 2009 organized as **Treasurer**.

CONFERENCES/WORKSHOPS/SEMINARS: PRESENTATIONS

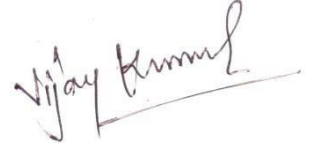
1. **Vijay Kumar Yadav** (2020) „Interference of different matrix and fire extinguishing methods on the detection of gasoline residues from fire debris by GC-MS“ at 2 days international forensic science & criminal investigation award and summit-2020 organized by DFS & CI Legal Desire Media & Insights on 28-29 May-2020, Noida (U.P.)
2. Pallavi Pahari and **Vijay Kumar Yadav** (2017) 'Identification and analytical methods for the detection of spasmoproxyvon Plus" abstract publish in National Conference on Future Perspectives of Forensic Science in India, 09-10 March, Jhansi (U.P.).
3. Kriti Nigam, Ankit Srivastava, **Vijay Kumar Yadav** and Pradeep Kumar, (2015) "Crime Against Women: Issues and Challenges of 21st Century" in the Proceeding of 38th Annual Conference of the Indian Society of Criminology (ISC), October 15 and 16, 2015, Tirunelveli.
4. Pradeep kumar, Ankit Srivastava, **Vijay Kumar Yadav** and Ila Gautam, (2015) "A preliminary Study of Statistical Approaches used by PG Students of Forensic Science in their Research" in the Proceeding of National On Research in Social Sciences & Sciences With Special Reference to Methodology & Statistical Techniques, 21-22 March, 2015, Organized by Inst. Of Education, Bundelkhand University, Jhansi.
5. Ankit Srivastava and **Vijay Kumar Yadav*** (2013) "relationship between ABO Blood Grouping and Nature of Crime among Criminals of two state of India" abstract publish in Asian Conference of Criminal and Operational Psychology.
6. Ankit Srivastava and **Vijay Kumar Yadav*** (2013) "Microscopical and Chemical Study of Cannabis Sativa" abstract publish in 5th Asian Forensic Science Network Annual Meeting & Symposium, 11-14 Nov Singapore.
7. Vivek Kumar, Ankit Srivastava and **Vijay Kumar Yadav*** (2013) "A study on soil samples in the Forensic view by particle size distribution (sieve-mesh) and elemental profiling (SEM-EDXA)" in the Souvenir of International Symposium on Emerging Paradigms in Forensic Science, March, 07th – 09th organized by Punjabi University, Patiala, 67-68
8. Srivastava, A.; **Vijay K. Yadav*** and Pradeep Kumar (2013) "Microscopical and Chemical study of *Cannabis sativa* of Bundelkhand Region" in the Souvenir of International Symposium on Emerging Paradigms in Forensic Science, March, 07th – 09th organized by Punjabi University, Patiala, 41-42.
9. Pradeep Kumar; Anu Singla; Ankit Srivastava and **Vijay Kumar Yadav*** (2011) "Application of Forensic Physics in crime investigation" in the Proceeding of National Conference on Ultrasonics organized by Department of Physics, Bundelkhand University, Jhansi.
10. Pradeep Kumar; Ankit Srivastava; **Vijay Kumar Yadav*** and Anu Singla (2011) "Who is He? A Identification Method Through Speech" in the Proceeding of National Symposium on Acoustics organized by Department of Physics, Bundelkhand University, Jhansi.
11. Kumar, P; Singla, A; Srivastava, A.; Yadav, V.K*, (2011) "Application of Forensic Physics in Crime Investigation" New Dimensions of Physics, 233-243.

12. Pradeep Kumar; Anu Singla; Ankit Srivastava; Vijay Kumar Yadav* and Nawab J. Dar (2010) “Digital Image Processing: A Powerful Biometric Tool” International Workshop on Recent Advances in Biometrics & Fingerprints” 15-16 February, Sam Higginbottom Institute of Agriculture Technology & Sciences, Allahabad.
13. Ankit Srivastava, Anu Singla & Vijay Kumar Yadav* (2010) “Heavy Metal Pollution and their toxic effects” National Conference on Emerging Trends in Chemical Sciences” 24-26 February, Bundelkhand University, Jhansi.

CONFERENCES/WORKSHOPS/SEMINARS: ATTENDED

1. Participated in National Workshop on “Electrochemical Technology: Energy, Sensor and Corrosion (WET-2019)” during 18-19 November 2019, organized by CSIR-CSIO, Chandigarh.
2. Participated in “24th All India Forensic Science Conference” Jointly organized by Directorate of Forensic Science Services (MHA, Govt. of India, New Delhi), Gujarat University & Raksha Shakti University, Ahmedabad during 10th-12th February 2018 at Gujarat University, Ahmedabad, India
3. Participated as Chairman in Technical Session in National Conference on “Forensic Science: An Interface between Science, Law & Justice” on 23rd December 2017 at Govt. Institute of Forensic Science, Nagpur
4. National Seminar On Research in Social Sciences & Sciences With Special Reference to Methodology & Statistical Techniques, 21-22 March, 2015, Organized by Inst. Of Education, Bundelkhand University Jhansi.
5. Science Camp under Inspire Internship Program” DST, Govt. of India New Delhi from January 20-24 2014 at Bundelkhand University Jhansi.
6. National Seminar on Human Right and Women, 10th December, 2014, Organize by Babu Jagjivan Ram Inst. Of Law and VJCWSD, Bundelkhand University, Jhansi
7. International Symposium on “Emerging Paradigms in Forensic Science”, 07th – 09th March, 2013, organized by Punjabi University, Patiala. National Seminar on “National Security and Terrorism, Role of Media & Administration of Justice”, 06-07 March, 2011, Bundelkhand University, Jhansi.
8. National Conference on “Ultrasonic”, 25-26 March, 2011, Bundelkhand University, Jhansi
9. National Symposium on “Geology and Mineral resources of Bundelkhand Carton”, 08 – 10 October, 2010, Bundelkhand University, Jhansi.
10. National Conference on “Emerging trends in Chemical Sciences”, 24-26 February, 2010, Bundelkhand University, Jhansi
11. International workshop on “Recent Advances in Biometrics & Fingerprints”, 15th – 16th February, 2010, Sam Higginbottom Institute of Agriculture, Technology & Sciences, Allahabad.
12. National Seminar on “Emerging Scenario in Forensic Science”, 23-24 October 2009, Bundelkhand University, Jhansi.
13. Training Program & workshop for Police & Judicial Personals on “Recent advances in Forensic Science”, 4-5 March 2006, Bundelkhand University, Jhansi.

I declare that above particulars are correct to best of my knowledge.

A handwritten signature in black ink, appearing to read 'Vijay Kumar', with a horizontal line underneath.

Date: 19/11/2023

(Dr. Vijay Kumar Yadav)