

Dr. Ashutosh Kumar Pandey, Ph.D.



Permanent: N 10/82 A-10 New Colony, Kakarmatta, DLW, Varanasi, UP, 221004, India
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CURRENT POSITION:

Assistant Professor (Environmental Science) at Banasthali Vidyapith Rajasthan since July 2016

RESEARCH INTEREST:

Air Pollution: Air Quality Monitoring, HVS, RDS, SO₂, NO₂, PM₁₀, O₃ etc.

Vertical Greenery Systems (VGSs): Classification of plants based on Air Pollution Tolerance Index and/or Anticipated Performance Index for VGSs and Urban forestry.

Metal Speciation: In river sediment, particulate matter and soil

NATIONAL ELIGIBILITY TESTS FOR LECTURESHIP(NET):

1. UGC NET	:	Qualified in Environmental Science (June 2012) Roll No. 05890043, Certificate No.121056773.
2. CSIR-UGCNET	:	Qualified in Life Science (June 2010) Roll No. 350366, Sr. No. 3061031742
3. ASRB-ICARNET	:	Qualified in Environment and Forestry (2010) Roll No. 331100000607, Serial No. ASRB/CE/EXAM(NET)/20103547

EDUCATIONAL QUALIFICATIONS:

Year	Qualification	Subjects	University/Board	Percentage
2010-2015 (Awarded in September 2015)	Ph.D. Thesis title "Air Quality Management in the City of Varanasi".	Environmental Science & Technology	Institute of Environment & Sustainable Development, Banaras Hindu University(BHU), Varanasi 221005	87.57 % (Coursework)
2007-2010	M.Sc.(Tech)	Environmental Science & Technology	Institute of Science, Banaras Hindu University(BHU), Varanasi	93.60 %

TECHNICAL SKILLS

- Proficient in Air Quality monitoring, (Envirotech APM 460 NL, and Handy Sampler)
- Water Quality monitoring.
- Proficient in handling Instruments such as Atomic Absorption Spectrophotometer, Spectrophotometer, Respirable Dust Sampler, Handy Air Sampler, High Volume Air Sampler
- Remote Sensing, GPS, GIS.

COMPUTER SKILLS

- Proficient in computer software viz. MS Office word, PowerPoint and Excel 2007(GCF certified), SPSS, Sigma-Plot, ILWIS etc.

LANGUAGES KNOWN

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	Proficient	Proficient	Proficient	Proficient	Proficient
HINDI	Proficient	Proficient	Proficient	Proficient	Proficient

PUBLICATIONS

Papers published in peer-reviewed International/National Journals:

1. **Ashutosh Kumar Pandey**, Mayank Pandey, B.D. Tripathi, Air Pollution Tolerance Index of climber plant species to develop Vertical Greenery Systems in a polluted tropical city, *Landscape and Urban Planning* Volume 144 Issue C, 2015 Pages. 119-127 ISSN:0169-2046, doi:10.1016/j.landurbplan.2015.08.014
(Impact factor: 5.144) UGC journal Number 6853
2. **Ashutosh Kumar Pandey**, Mayank Pandey, Ashutosh Mishra, Siddhant Mohan Tiwary, B.D. Tripathi, Air pollution tolerance index and anticipated performance index of some plant species for development of urban forest, *Urban Forestry & Urban Greening*, Volume 14, Issue 4, 2015, Pages 866-871, ISSN 1618-8667, doi: <http://dx.doi.org/10.1016/j.ufug.2015.08.001>.
(Impact factor: 3.043), UGC journal Number 35409.
3. **Ashutosh Kumar Pandey**, Mayank Pandey, B.D. Tripathi, Assessment of Air Pollution Tolerance Index of some plants to develop vertical gardens near street canyons of a polluted tropical city, *Ecotoxicology and Environmental Safety*, Volume 134, Part 2, December 2016, Pages 358-364, ISSN 0147-6513, doi:<http://dx.doi.org/10.1016/j.ecoenv.2015.08.028>.
(Impact factor: : 4.527) UGC journal Number 12541
4. **Ashutosh Kumar Pandey**, B.D. Tripathi, Role of Vertical Greenery Systems in Green Tourism, *International Journal of Indian Tourism and Hospitality Congress 'Tourism Innovations'* 4(1), Pages 125-134, 2015, ISSN 2278-8379.
UGC journal Number 64098
5. Javanmard, Z., Kouchaksaraei, M.T., Hosseini, S.M., **Pandey, A.K.**, Assessment of anticipated performance index of some deciduous plant species under dust air pollution. *Environ Sci Pollut Res* 27, 38987–38994 (2020). <https://doi.org/10.1007/s11356-020-09957-w>
(Impact Factor: 3.056)
6. **Ashutosh Kumar Pandey**, B.D. Tripathi, Seasonal Variations in The Ambient Air Concentrations of Gaseous and Particulate Pollutants in Varanasi, *Pragya, Journal of Banaras Hindu University* 60(02), 18-24, 2014-15, ISSN 0554-9884
UGC journal Number 45205
7. Mayank Pandey, **Ashutosh Kumar Pandey**, Ashutosh Mishra, B.D. Tripathi, Assessment of metal species in river Ganga sediment at Varanasi, India using sequential extraction procedure and SEM–EDS, *Chemosphere*, Volume 134, September 2015, Pages 466-474, ISSN 0045-6535, <http://dx.doi.org/10.1016/j.chemosphere.2015.04.047>.
(Impact Factor: 5.108) UGC journal Number 5539
8. Mayank Pandey, **Ashutosh Kumar Pandey**, Ashutosh Mishra, B.D. Tripathi, Application of chemometric analysis and self Organizing Map-Artificial Neural Network as source-receptor modeling for metal speciation in river sediment, *Environmental Pollution*, Volume 204, September 2015, Pages 64-73, ISSN 0269-7491, <http://dx.doi.org/10.1016/j.envpol.2015.04.007>.
(Impact Factor: 5.714) UGC journal Number 19815

9. Mayank Pandey, Smriti Tripathi, **Ashutosh Kumar Pandey**, B.D. Tripathi, Risk assessment of metal species in sediments of the river Ganga, *CATENA*, Volume 122, November 2014, Pages 140-149, ISSN 0341-8162, <http://dx.doi.org/10.1016/j.catena.2014.06.012>.
(Impact Factor: 3.851)UGC journal Number 5179
10. Mayank Pandey, **Ashutosh Kumar Pandey**, Ashutosh Mishra, B.D. Tripathi, Speciation of carcinogenic and non-carcinogenic metals in respirable suspended particulate matter (PM10) in Varanasi, India, *Urban Climate*, Volume 19, January 2017, Pages 141-154, ISSN 2212-0955, <http://dx.doi.org/10.1016/j.uclim.2017.01.004>.
UGC journal Number 35403
11. Mayank Pandey, **Ashutosh Kumar Pandey**, Ashutosh Mishra, B. D. Tripathi, Assessment of Metal Bioaccumulation in *Clarias batrachus* and Exposure Evaluation in Human, *Proceedings of the International Academy of Ecology and Environmental Sciences*, 4(4):176-184, 2014, ISSN 2220-8860 (Impact Factor:0.376)
12. Mayak Pandey, **Ashutosh Kumar Pandey**, B D Tripathi, Study of Metal Speciation in Soils of a Tropical Region of India, *International Journal of Environmental Research and Development*, 4(2):123-128, 2014, ISSN 2249-3131 (http://www.ripublication.com/ijerd_spl/ijerdv4n2spl_04.pdf)
13. Mayank Pandey, **Ashutosh Kumar Pandey**, Ashutosh Mishra, B.D. Tripathi, Assessment of the bioaccumulation of selected metals in *Channa punctatus* and *Rita rita* and exposure evaluation in humans, *Regional Studies in Marine Science*, Volume 11, March 2017, Pages 1-8, ISSN 2352-4855, <https://doi.org/10.1016/j.rsma.2017.01.009>.
(Impact Factor: 1.152), UGC journal Number 10172
14. Mayank Pandey, **Ashutosh Kumar Pandey**, Ashutosh Mishra, B.D. Tripathi, Assessment of metal bioaccumulation in *Mastacembelus armatus* (eel) and exposure evaluation in human, *Environmental Nanotechnology, Monitoring & Management*, Volume 7, May 2017, Pages 103-109, ISSN 2215-1532, <https://doi.org/10.1016/j.enmm.2017.02.002>.
UGC journal Number 19809

Papers/Abstracts in International/National Conferences:

1. Smriti Tripathi, Devendra Mani Tripathi, Mayank Pandey, **Ashutosh Pandey**, B D Tripathi, Application of combined process of biofiltration and ozonation for treatment of municipal sewage in the subtropical cities, *Proceedings of international conference on Energy security, global warming and sustainable climate (SOLARIS 2012)*, 118-126, 2012 ISBN 978-93-82332-03-9
2. **Ashutosh K Pandey**, Smriti Tripathi, Vinita Pathak, Devendra M Tripathi, Mayank Pandey, B D Tripathi, Ambient air quality status of Industrial, residential and Eco-Sensitive zone in Varanasi, *Souvenir Solaris 2012*, Res01 (abstract) 26 , 2012

SEMINAR/SYMPOSIA/WORKSHOP/CONFERENCE/TRAINING/COURSES:

1. Successfully participated in the National Workshop on “**Personality Development of Faculty of Higher Education**” organized by Faculty Development Centre, Banasthali Vidyapith during 1st January to 31st March, 2017.
2. Successfully participated in Faculty Development Programme on “Tools and Techniques in Earth Sciences”, organized by Faculty Development Centre, Banasthali Vidyapith during 10-16 August 2017.
3. Successfully participated in the 7 days national workshop on “Well Being and Happiness” organized by Faculty Development centre, Banasthali Vidyapith. (Under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching) (09-15 July 2017)
4. Participated in one day National Workshop on Talk Happy Therapy: A step towards happiness held at Faculty of Home Science, Banasthali Vidyapith on May 03, 2017
5. Presented a paper entitled “Development of Vertical Greenery Systems in a proposed smart city” in National Seminar on Forest, Water and Climate Change, organized by Indira Gandhi Centre for Human Ecology, Environmental and Population Studies, University of Jaipur, Rajasthan on March 21st 2018.
6. Successfully completed the basic course on “*Remote Sensing, Geographical Information System & Global Navigation Satellite System*” conducted by **Indian Institute of Remote Sensing, Indian Space Research Organization, Department of Space, Government of India**, from August 10, 2015 to November 27, 2015
7. Successfully completed the three month industrial training at **Hindalco industries limited, Renukoot** (Aditya Birla Group), covering various aspects of **Environmental Management System (EMS)** which include, stack monitoring, wastewater management, STP, safety management etc.
8. Vocational Training at **Diesel Locomotive Works, Varanasi** (A Government of India Enterprise), covering various management aspects of **Environment and Safety**. (1 Month)
9. Successfully completed the Tier-II training on “*Sustainable Development and Management of Groundwater Resources*” by **Ministry of Water Resources, River Development, and Ganga Rejuvenation** in association with Central Ground Water Board under the aegis of Rajiv Gandhi National Ground Water Training & Research Institute, Raipur, Held at Banaras Hindu University from 22-11-2013 to 23-11-2013.
10. Successfully completed Tier-III training on “*Village Level Aquifer Management Plan*” by **Government of India, Ministry**

of Water Resources in association with Central Ground Water Board under the aegis of Rajiv Gandhi National Ground Water Training & Research Institute, Raipur, Held at Banaras Hindu University from 24-02-2015 to 28-02-2015.

11. Participated in a Short term course on **GIS/GPS/Remote Sensing** at IIT BHU, Varanasi.
12. Participated in one day conference on intellectual property rights (IPR), at Banasthali Vidyapith in association with Consortium of Women Entrepreneurs of India.
13. Completed Project work entitled **“Surface Water Management in Rural area.”** In M.Sc. (Tech) at Banaras Hindu University.
14. Successfully completed Dissertation entitled **“Role of EIA in Environmental Management.”** in M.Sc. (Tech) at Banaras Hindu University.
15. Participated in a 7 days workshop on **“Discovering statistics by MS-Excel and SPSS”** organized by DST Centre for interdisciplinary Mathematical Sciences, BHU, Varanasi.
16. Successfully completed the one-year certificate course in **“Statistical Methods of Analysis”** from Department of Statistics, Institute of Science, Banaras Hindu University, Varanasi with 69% marks.
17. Successfully completed **“Certificate Course in Yoga for Better Living”** at Yoga Sadhana Kendra (Centre for Yoga), Banaras Hindu University in 2009.
18. Participated in the Conference of **Indian Aerosol Science and Technology Association**, 2014 (IASTA 2014), held during November 11-13, 2014 at Department of Geophysics, Banaras Hindu University, Varanasi.
19. Participated and Presented a paper in 7th International conference of Indian Tourism & Hospitality Congress **“Inclusive Growth and Sustainable Development: Agenda for Tourism and Hospitality Industry**, 6th to 8th February 2015 at Manali (Himachal Pradesh), India
20. Successfully completed the CCC (Course on Computer Concepts) certificate course of NIELIT (Roll. No. GO1410033250).
21. Participated in the Lecture series: **Certificate for Personality Development in the Light of Bhagwad Geeta**, in Banaras Hindu University.
22. Participated and presented a paper in National Workshop on **“Aviral and Nirmal Ganga: Issues and Challenges”** on 11 December 2010 at Banaras Hindu University.
23. Participated and presented a paper titled **‘Ambient Air Quality Status in Upper Gangetic Plain of Varanasi City’** in National Conference on **“Issues and Challenges of River Ganga Basin Management (ICRGBM)”** on March 26th to 28th 2012 at Banaras Hindu University.
24. Participated in **“Springer Summit on Materials and Protocols”** organized by Springer.
25. Participated in **“International Congress on Recent Advances in Environmental Science & Technology”** at Banaras Hindu University.
26. Passed ‘A’ Certificate Examination of NCC (UPSD/97/89094).
27. Participated in online faculty development program.

REFERENCES

Available on request

DECLARATION

I hereby declare that the above-furnished information to be true to the best of my knowledge.

Date:

Place:

Ashutosh Kumar Pandey