

DR. MOHD. SHAKIR KHAN



Assistant Professor
Physics Department,
College of Science, Al-Zulfi,
Majmaah University, KSA

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1. ORCID: <https://orcid.org/0000-0003-4280-7198>
2. Research gate:
https://www.researchgate.net/profile/Mohd_Shakir_Khan
3. Google Scholar:
<https://scholar.google.com/citations?user=TI94tD0AAAAJ&hl=en&oi=ao>

Research Interests:

Nuclear & Radiation Physics

Environmental Monitoring & Radiation Protection in the environment & Environmental Physics

Solid State Nuclear Track Detectors (SSNTD's)

Land use land cover (LULC) taxonomy and dynamics transformation analysis using GIS technique

Language Skills:

English, Hindi, Urdu, Arabic

Qualification (University Education):

2002	B. Sc. Degree (Physics)	Dr. B. R. Ambedkar University, Agra, India
2004	M. Sc. Degree (Physics)	Dr. B. R. Ambedkar University, Agra, India
2007	M. Phil. Degree (Applied Physics)	Aligarh Muslim University, Aligarh, India
2013	Ph.D. Degree (Applied Physics)	Aligarh Muslim University, Aligarh, India

Career:

2011-2013	Junior Research Fellow, Department of Applied Physics, Aligarh Muslim University, Aligarh, India
May, 2013 – Nov.2013	Assistant Professor, Department of Physics, JJT University, Rajasthan, India
2013 -2014	Assistant Professor, Department of Physics, Sobhasaria Group of Institutions, Rajasthan Technical University, India
2014 to now	Assistant Professor, Department of Physics, College of Science, Al-Zulfi, Majmaah University, Saudi Arabia

Publications (in International journals):

1. **M. Shakir Khan**, M. Suhail, T. Alharbi (2018). Evaluation of urban growth and land use transformation in Riyadh using landsat satellite data. Arabian Journal of Geosciences, 11:540.
<https://doi.org/10.1007/s12517-018-3896-5>
2. **M. Shakir Khan** (2017). Radon in the dwellings: Causes and prevention. International

- Annals of Science, 3(1): 1-5.
[doi: https://doi.org/10.21467/ias.3.1.1-5](https://doi.org/10.21467/ias.3.1.1-5)
3. Deepak Verma, **M. Shakir Khan** (2014). Assessment of indoor radon, thoron and their progeny in dwellings of Bareilly city of Northern India using track etch detectors. Romanian Journal of Physics, 59(1-2): 172-182.
http://www.nipne.ro/rjp/2014_59_1-2.html
 4. **M. Shakir Khan**, Ameer Azam (2014): Measurements of Indoor Radon, Thoron and their Progeny Using Twin Cup Dosimeters in Rural Areas of Northern India. Environmental Earth Sciences, 71(3): 1319-1325.
<http://link.springer.com/article/10.1007/s12665-013-2538-1>
 5. Deepak Verma, **M. Shakir Khan** (2013): Measurement of indoor radon and thoron in the dwellings of Faizabad city using plastic track detectors. Indian Journal of Pure and Applied Physics, 51(4): 219-222.
<http://nopr.niscair.res.in/handle/123456789/16565>
 6. Deepak Verma, **M. Shakir Khan**, Mohd. Zubair (2012): Measurements of Indoor Radon, Thoron and their Progeny in Farrukhabad city of Uttar Pradesh, India. Iranian Journal of Radiation Research, 10(3-4): 193-196.
<http://ijrr.com/article-1-989-en.html>
 7. M. Zubair, **M. Shakir Khan**, D. Verma (2012): Measurements of radium concentration and radon exhalation rates of soil samples collected from some areas of Bulandshahr district, Uttar Pradesh, India using plastic track detectors. Iranian Journal of Radiation Research, 10(2): 83-87.
<http://ijrr.com/article-1-939-en.html>
 8. Deepak Verma, **M. Shakir Khan**, Mohd. Zubair (2012): Assessment of Effective Radium Content and Radon Exhalation Rates in Soil Samples. Journal of Radioanalytical and Nuclear Chemistry, 294(2): 267-270.
<http://link.springer.com/article/10.1007/s10967-012-1694-1>
 9. **M. Shakir Khan**, D.S. Srivastava, Ameer Azam (2012): Study of Radium Content and Radon Exhalation Rates in Soil Samples of Northern India. Environmental Earth Sciences, 67(5): 1363-1371.
<http://link.springer.com/article/10.1007/s12665-012-1581-7>
 10. **M. Shakir Khan**, Ameer Azam (2012): Depth Dependent Study of Radon, Thoron and their progeny in Tube-Wells. Journal of Radioanalytical and Nuclear Chemistry, 294(2): 289-293.
<http://link.springer.com/article/10.1007/s10967-011-1487-y>
 11. Deepak Verma, **M. Shakir Khan**, Mohd. Zubair (2012): Radon and its progeny measurements in dwellings of Farrukhabad city of Uttar Pradesh in Northern India. Indian Journal of Pure and Applied Physics, 50: 355-357.
<http://nopr.niscair.res.in/handle/123456789/14176>
 12. Mohd. Zubair, **M. Shakir Khan**, Deepak Verma (2011): Radium Studies in Sand Samples Collected from Sea Coast of Tirur, Kerala, India Using LR-115 Plastic Track Detectors. International Journal of Applied Science and Engineering, 9(1): 43-47.
<http://www.airitilibrary.com/Publication/aDetailedMesh?docid=17272394-201104-201108170008-201108170008-43-47>
 13. **M. Shakir Khan**, A.H. Naqvi, A. Azam, D.S. Srivastava (2011): Radium and Radon Exhalation Studies of Soil. Iranian Journal of Radiation Research, 8(4): 207-210.
<http://ijrr.com/article-1-682-en.html>
 14. **M. Shakir Khan**, M. Zubair, Deepak Verma, A.H. Naqvi, Ameer Azam, M.K. Bhardwaj (2011): The Study of Indoor Radon in the Urban Dwellings Using Plastic Track Detectors. Environmental Earth Sciences, 63(2): 279-282.
<http://link.springer.com/article/10.1007/s12665-010-0701-5>
 15. Mohd. Zubair, **M. Shakir Khan**, Deepak Verma (2011): Assessment of indoor, thoron and their decay products in the surrounding areas of Firozabad, Uttar Pradesh, India. Archives of Applied Science Research, 3(1): 77-82.
<http://scholarsresearchlibrary.com/aasr-vol3-iss1/AASR-2011-3-1-77-82.html>
 16. **M. Shakir Khan**, A. H. Naqvi, Ameer Azam (2009): Depth Dependence Radon Study in Indian Tube-Wells. Asian Journal of Chemistry, 21(10): S292-295.
 17. **M. Shakir Khan**, A. H. Naqvi, Ameer Azam (2008): Study of Indoor Radon and its Progeny Levels in Rural Areas of North India Using LR-115 Plastic Track detectors. Radiation Measurements, 43: S385-S388.
<https://doi.org/10.1016/j.radmeas.2008.03.026>

18. A. K. Mahur, **M. Shakir Khan**, A. H. Naqvi, Rajendra Prasad, Ameer Azam (2008): Measurement of effective Radium Content of sand samples collected from Chhatrapur Beach, Orissa, India using track etch technique. *Radiation Measurements*, 43: S520– S522.
<https://doi.org/10.1016/j.radmeas.2008.04.051>

Publications (in Books):

19. **M. Shakir Khan** (2012): Chapter 2: Radon: Its properties and applications, In: Handbook of Radon: Properties, applications and health. Zachary Li and Christopher Feng (Editors), Nova Science Publishers, Hauppauge, NY. ISBN: 978-1-62100-177-5. pp. 37–62.
https://www.novapublishers.com/catalog/product_info.php?products_id=35567
20. **M. Shakir Khan**, Ameer Azam, A.H. Naqvi, Deepak Verma, M. Zubair, M.K. Bhardwaj (2010): Radium and Radon Exhalation Studies in Soil Samples. In: Recent Trends in Radiation Physics Research. B.L. Ahuja (Ed.), Himanshu Publications, Udaipur. ISBN: 978-81-7906-227-2. pp. 356–357.

Publications (in national conference proceedings):

21. Deepak Verma, **M. Shakir Khan** (2014): Variation of radon and its levels in different types of floorings and rooms using LR-115 solid-state nuclear track detectors. In the Proceedings of the DAE-BRNS fifth symposium on nuclear analytical chemistry (NAC-V) at BARC, Mumbai, India during 20-24 January 2014.
<https://inis.iaea.org/search/searchsinglerecord.aspx?recordsFor=SingleRecord&RN=45055662#>
22. **M. Shakir Khan**, Ameer Azam, D. S. Srivastava (2012): Measurements of Radon and its Progeny Using Twin Cup Dosimeters in Rural Dwellings of North India. In the proceeding of 19th National Symposium on Radiation Physics (NSRP-19) at Radisson BLU Resort Temple Bay, Mamallapuram, Tamil Nadu, India during December 12–14, 2012. pp. 429–430.
http://inis.iaea.org/search/search.aspx?orig_q=RN:44072163
23. Deepak Verma, **M. Shakir Khan** (2012): Radon and its Progeny Study in the Indoor Environment of Bareilly city in Northern India. In the proceeding of 19th National Symposium on Radiation Physics (NSRP-19) at Radisson BLU Resort Temple Bay, Mamallapuram, Tamil Nadu, India during December 12–14, 2012. pp. 488–489.
<http://inis.iaea.org/search/searchsinglerecord.aspx?recordsFor=SingleRecord&RN=44072180>
24. Deepak Verma, **M. Shakir Khan** (2012): Analysis of Radium Content and Radon Exhalation Rates in Soil Samples Using LR-115 Plastic Track Detectors. In the proceeding of 19th National Symposium on Radiation Physics (NSRP-19) at Radisson BLU Resort Temple Bay, Mamallapuram, Tamil Nadu, India during December 12–14, 2012. pp. 560–561.
<http://inis.iaea.org/search/searchsinglerecord.aspx?recordsFor=SingleRecord&RN=44072199>
25. **M. Shakir Khan**, Ameer Azam, D. S. Srivastava (2011): Measurements of Concentrations of Radon and Its Progeny Using Twin Cup Dosimeters in the Dwellings of Rural Areas of Kanshiram Nagar, North India. In the proceeding of 17th National Symposium on Solid State Nuclear Track Detectors and Their Application (SSNTD-17) held at M. S. University of Baroda, Vadodara, Gujarat during 17–19 October, 2011. pp.76.
26. Deepak Verma, **M. Shakir Khan** (2011): Measurement of Indoor Concentration of radon and its Progeny Using SSNTD's. In the proceeding of 17th National Symposium on Solid State Nuclear Track Detectors and Their Application (SSNTD-17) held at M. S. University of Baroda, Vadodara, Gujarat during 17–19 October, 2011. pp.54.
27. **M. Shakir Khan**, M. Zubair, Deepak Verma, A.H. Naqvi, Ameer Azam, M.K. Bhardwaj (2009): Indoor Radon and its Short-lived Daughter Products Measurements in the Urban Dwellings of Northern India. In the Proceeding of DAE-BRNS “Nuclear and Radiochemistry Symposium” held at Mithibai College, Mumbai–400056, India, during 7–10 January 2009, pp. 601–602.
28. Mohd. Zubair, **M. Shakir Khan**, Deepak Verma, M.K. Bhardwaj (2009): Assessment of home radon and its decay products in factory area Firozabad district, Uttar Pradesh, India. In the Proceeding of National Conference on Accelerator and Low Level Radiation Safety (NCALLRS), held at Inter University Accelerator Centre, New Delhi-110067, India, during 18–20 November 2009. Book of Abstract pp.128.
29. Mohd. Zubair, **M. Shakir Khan**, Deepak Verma, M.K. Bhardwaj (2009): Measurement of radon concentration and effective dose rate in industrial area using LR-115 type II detectors. In the Proceeding of National Conference on Accelerator and Low Level Radiation Safety

(NCALLRS), held at Inter University Accelerator Centre, New Delhi-110067, India, during 18–20 November 2009. pp.55.

30. **M. Shakir Khan**, Ameer Azam, A.H. Naqvi, Deepak Verma, M. Zubair, M.K. Bhardwaj (2009): Radium and Radon exhalation studies in soil samples. In the Proceeding of 18th National Symposium on Radiation Physics (NSRP-18), held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur–313001 (Rajasthan) India, during 19–21 November 2009. pp.155.

31. Mohd. Zubair, **M. Shakir Khan**, Deepak Verma, M.K. Bhardwaj (2009): Investigation of Radon Exhalation Rate and Radium from Soil Samples Using SSNTD's. In the Proceeding of 16th National Symposium on Solid State Nuclear Track Detectors and Their Applications (SSNTD-16), held at Department of Physics, Guru Nanak Dev University, Amritsar-143005, Punjab, India, during 9–11 November 2009. Book of Abstract pp.37.

32. M. Shakir Khan, Ameer Azam, A.H. Naqvi, Deepak Verma, M. Zubair, M.K. Bhardwaj (2009): Measurements of Indoor Air Concentrations of Radon, Thoron and their Progeny Using Twin Cup Dosimeters in Rural Areas of Northern India. In the Proceeding of 16th National Symposium on Solid State Nuclear Track Detectors and Their Applications (SSNTD-16), held at Department of Physics, Guru Nanak Dev University, Amritsar-143005, Punjab, India, during 9–11 November 2009. pp.22.

33. **M. Shakir Khan**, A.H. Naqvi, Ameer Azam (2009): Depth Dependence Radon Study in Indian Tube-Wells. In the Proceeding of National Conference on Advanced Materials and Radiation Physics (AMRP-2009) held at Department of Physics Sant Longowal Institute of Engineering and Technology (Deemed to be University) Longowal, Sangrur (Punjab) – 148106, India, during 9–10 March 2009. pp.93.

34. **M. Shakir Khan**, A.H. Naqvi, D.S. Srivastava, Ameer Azam (2007): Measurement of Radium Content and Radon Exhalation Rates in Soil Samples Using LR-115 Type II Plastic Track Detectors. In the Proceeding of 17th National Symposium on Radiation Physics (NSRP-17), Saha Institute of Nuclear Physics, Kolkata, India, during 14–16 November, 2007. pp.140.

35. **M. Shakir Khan**, A.H. Naqvi, Ameer Azam, D.S. Srivastava (2007): Measurement of Radium Content and Radon Exhalation Rates in Soil using Track Etch Technique. In the Proceeding of 15th National Symposium on Solid State Nuclear Track Detectors and their Applications, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal-249199, India, during 21–23 June, 2007. pp.89.

36. Ameer Azam, **M. Shakir Khan**, M. Tariq, A.H. Naqvi, D.S. Srivastava (2007): Indoor Radon Measurements in Some Dwellings of District Rampur (U.P) using LR-115 Type-II Plastic Track Detectors. In the Proceeding of 15th National Symposium on Solid State Nuclear Track Detectors and their Applications, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal–249199, India, during 21–23 June, 2007. pp.89.

37. M. Shakir Khan (2006): Indoor Radon Measurement in Dwellings using Solid State Nuclear Track Detectors (SSNTDs). In the Proceeding of 62nd BRNS-IANCAS National Workshop on Radiochemistry and its applications to Multiple Areas, Chemistry Dept., Mithibai College, Mumbai- 400056, India, during 28th Oct.,–11th Nov., 2006.

Publications (in international conference proceedings):

38. Deepak Verma, **M. Shakir Khan** (2012): Analysis of radium content and radon exhalation rates in soil samples using LR-115 plastic track detectors. In the proceedings of Third International Geo-Hazards Research Symposium (IGRS-2012) held at Department of Physics, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal, India, during 10–14 June 2012. pp.86.

39. **M. Shakir Khan**, Ameer Azam, M. Mohisin Khan (2012): Study of indoor radon, thoron and their progeny levels in the dwellings of district Mainpuri of north India. In the proceedings of Third International Geo-Hazards Research Symposium (IGRS-2012) held at Department of Physics, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal, India, during 10–14 June 2012. pp.85.

40. Deepak Verma, **M. Shakir Khan** (2012): Assessment of Indoor Concentration of Radon, Thoron and their Progeny using plastic track detector. In the proceedings of International Conference on Radiation Environment- Assessment, Measurements & Its Impact [RADENVIRON–2012] held at Department of Physics, School of Physical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow, India, during 12–14 April 2012. pp.65.

41. **M. Shakir Khan**, Ameer Azam (2011): Measurements of Radium Content and Radon Exhalation rates in Rock and Sand Samples. In the proceeding of 25th International

Conference on Nuclear Tracks in Solids” held at Instituto de Fisica, Universidad Nacional Autonoma de Mexico, Puebla, Mexico, during 4–9 September 2011. pp.84.

42. **M. Shakir Khan**, Ameer Azam (2011): Study of Radon and its Progeny in the Dwellings of District Mainpuri Using LR-115 Detectors. In the proceeding of 25th International Conference on Nuclear Tracks in Solids” held at Instituto de Fisica, Universidad Nacional Autonoma de Mexico, Puebla, Mexico, during 4–9 September 2011. pp.86.

43. Deepak Verma, **M. Shakir Khan**, Mohd. Zubair, M.K. Bhardwaj (2010): Assessment of Effective Radium Content and Radon Exhalation Rates in Soil Samples. In the Proceeding of Fourth International Symposium on Nuclear Analytical Chemistry (NAC-IV), held at Bhabha Atomic Research Centre, Trombay, Mumbai–400085, India, during 15–19 November 2010. pp.194.

44. **M. Shakir Khan**, Ameer Azam, A.H. Naqvi, Deepak Verma, M. Zubair, M.K. Bhardwaj (2010): Depth Dependent Study of Radon, Thoron and their progeny in Tube-Wells. In the Proceeding of Fourth International Symposium on Nuclear Analytical Chemistry (NAC-IV), held at Bhabha Atomic Research Centre, Trombay, Mumbai–400085, India during 15–19 November, 2010. pp.192.

Research Articles Reviewed:

1. Muhammad Rafique (2013). Ambient indoor/outdoor gamma radiation dose rates in the city and at high altitudes of Muzaffarabad (Azad Kashmir). *Environmental Earth Sciences*, 70 (4): 1783-1790.

<http://link.springer.com/article/10.1007/s12665-013-2266-6>

2. Salaheddin R. Malkawi, Mahmoud El Gohary, Mohammad Omari, Danah Azizi, Qusai Al-Mistarihi, Ebtihal Al-Malahim (2013). Investigation of Radioactivity Levels in Soil at JUST Campus Prior to the Construction of JRTR. *Environmental Earth Sciences*.

3. Jae-Hwan Cho, Hae-Kag Lee, Kyung-Rae Dong, Yong-Jin Ju, Woon-Kwan Chung, Dong-Kyoon Han, Min-Hye Kim (2014). A Study on the Measurement and Analysis of Radioactivity Concentration and the Ambient Dose Rate in Soil on the Playgrounds of Elementary Schools in the Gwangju Area. *Environmental Earth Sciences*, 71 (5): 2391-2397.

<http://link.springer.com/article/10.1007/s12665-013-2639-x>

4. N. Yamada, M. Uesugi, A. Yokoyama, T. Nakanishi (2014). Studies on temporal change in depth profiles of the Rn concentrations in natural water columns. *Journal of radioanalytical and nuclear chemistry*, 299 (3): 1177-1182.

<http://link.springer.com/article/10.1007/s10967-014-2955-y>

5. Amit Kumar, R P Chauhan, Manish Joshi, Praveen Aggarwal (2014). Implications of variability in Indoor radon/thoron levels: A study of dwellings in Haryana, India. *Environmental Earth Sciences*.

6. Takaomi Arai (2014). Temporal and spatial variations of radioactive cesium levels in Northeast Japan following the Fukushima nuclear accident. *Environmental Earth Sciences*.

7. Mohamed Abd-Elzاهر (2016): Assessment of radon exhalation rates and effective radium content of soil samples of Alexandria city, Egypt. *Human and Ecological Risk Assessment: An International Journal*.

8. M. Suhail (2016): Dynamics of land use-land cover change in Riyadh using satellite derived optical data. *International Journal of Sustainable Built Environment*.

9. He liang et al., (2017): Alpha cup technology for monitoring of soil radon levels. *Nuclear Science and Techniques*.

10. Ademila Omovumi (2017): Radiometric impact assessment around two query sites, Benin-Owo expressway, Southwestern, Nigeria. *International Annals of Science*.

11. Shikha et al., (2018): Measurement of variation of radon-thoron and their progeny concentrations in dwellings using pin hole based dosimeters. *Aerosol and Air Quality Research*.

12. B. Lyngkhoi et al., (2018): Measurement of natural radioactivity and radiation hazard assessment in the soil samples of East Khasi Hills District, Meghalaya, India. *Environmental Earth Sciences*.

Teaching Experience:

Lab classes	B. Tech	Dept. of Applied Physics, Aligarh Muslim University, India
Engineering Physics I	B. Tech	Sobhasaria College of Engg., Rajasthan Technical University India
Engineering Physics II	B. Tech	Sobhasaria College of Engg., Rajasthan Technical University India
General Physics II	B.S in Physics	College of Science, Al-Zulfi, Majmaah KSA University
Nuclear Physics Lab	B.S in Physics	College of Science, Al-Zulfi, Majmaah KSA University
Physics for Health Purposes	B.S in Physics	Deanship of preparatory year, College of Science, Al-Zulfi, Majmaah University KSA
Physics for Engineering	B.S in Physics	Deanship of preparatory year, College of Science, Al-Zulfi, Majmaah University KSA
Classical Mechanics	B.S in Physics	College of Science, Al-Zulfi, Majmaah KSA University
Classical Mechanics I	B.S in Physics	College of Science, Al-Zulfi, Majmaah KSA University
Classical Mechanics II	B.S in Physics	College of Science, Al-Zulfi, Majmaah KSA University
Optics Lab	B.S in Physics	College of Science, Al-Zulfi, Majmaah KSA University

Conferences/Workshops/Symposia attended and presented research articles:

1. International workshop on Nuclear Sciences and its Peaceful applications (NSPA), held at Cairo University, Egypt, during 17–19 March 2009.
2. Fourth International Symposium on Nuclear Analytical Chemistry (NAC-IV), held at Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India, during 15–19 November 2010.
3. 25 th International Conference on Nuclear Tracks in Solids” held at Instituto de Fisica, Universidad Nacional Autonoma de Mexico, Puebla, Mexico, during 4–9 September 2011.
4. Third International Geo-Hazards Research Symposium (IGRS-2012) held at Department of Physics, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal, India, during 10–14 June 2012.
5. 4 th International conference on Challenges in Rural Electrification by Unconventional Energy Generation held at Shri Jagdishprasad Jhabarmal Tibrewala University, Jhunjhunu, Rajasthan, India, during 10–11 October, 2013.
6. 14 th National Symposium on Solid State Nuclear Track Detectors & their Applications held at Dept. of Applied Physics, Aligarh Muslim University, Aligarh-202002, India, during 10–12 November 2005.
7. National Conference on recent advances in Material Sciences (RAMS-2006) held at Dept. of Physics, Kurukshetra University Kurukshetra-136119, Haryana, India, during 27–29 September 2006.
8. 62 nd BRNS-IANCAS National Workshop on Radiochemistry and its Applications to Multiple Area held at Chemistry Dept., Mithibai College, Mumbai- 400056, India, during 28 Oct., 11 Nov. 2006.
9. National Workshop on Nuclear and Atomic techniques based Pure and Applied Science held at University of Kalyani Nadia, Kolkata, India, during 29–30 March 2007.
10. National Conference on Accelerator and Low Level Radiation Safety held at IUAC New Delhi-110067, India, during 25–27 April 2007.
11. 15 th National Symposium on Solid State Nuclear Track Detectors and their Applications (SSNTD-15) held at Department of Physics, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal-249199, India, during 21–23 June 2007.
12. 17 th National Symposium on Radiation Physics (NSRP-17) held at Saha Institute of Nuclear Physics, Kolkata, India, during 14–16 November 2007.
13. 65 th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes held at Dept. of Physics, Kurukshetra University Kurukshetra, Haryana, India,

during 29 Nov., 8 Dec. 2007.
14. National workshop on Solid State Nuclear Track Detectors (NWSSNTD) held at Dept. of Physics, S.S. (P.G) College Shahjehanpur (U.P), India, during 14–15 December 2007.
15. Fourth DAE-BRNS Workshop on Hadron Physics held at Dept. of Physics, Aligarh Muslim University, Aligarh-202002, India, during 18–23 February 2008.
16. DAE-BRNS Theme meeting RADON-2008 on “Advances in the methods of assessment of exposure due to radon, thoron and their decay products” held at BARC, Mumbai-400085, India, during 11–13 March 2008.
17. Sixteenth National Symposium on Environment (NSE-16) held at Dept. of Environmental Science & Engineering, Guru Jambheshwar University of Science & Technology, Hisar, Haryana, India, during 16–18 July 2008.
18. National Workshop on Radiation Science and Applications held at Burdwan University, Burdwan–713104, West Bengal, India, during 10–12 November 2008.
19. National Seminar on New Era in Nuclear and Particle Physics held at Burdwan University, Burdwan–713104, West Bengal, India, during 28–29 November 2008.
20. DAE-BRNS “Nuclear and Radiochemistry Symposium (NUCAR-2009)” held at Mithibai College, Mumbai–400056, India, during 7–10 January 2009.
21. National Conference on “Recent Developments in Science & Technology” held at Shri Varshney Mahavidyalaya, Aligarh-202002 (U.P), India, during 15–16 February 2009.
22. National Conference on Advanced Materials and Radiation Physics (AMRP-2009) held at Department of Physics Sant Longowal Institute of Engineering and Technology (Deemed to be University) Longowal, Sangrur (Punjab)–148106, India, during 9–10 March 2009.
23. National Workshop on Oxide Materials held at Department of Applied Physics, AMU, Aligarh-202002, India, during 12–13 May 2009.
24. 16 th National Symposium on Solid State Nuclear Track Detectors and Their Applications (SSNTD-16), held at Department of Physics, Guru Nanak Dev University, Amritsar-143005, Punjab, India, during 9–11 November 2009.
25. 18 th National Symposium on Radiation Physics (NSRP-18), held at Department of Physics, University College of Science, M.L. Sukhadia University, Udaipur 313001 (Rajasthan) India, during 19–21 November 2009.
26. National Seminar on Contemporary Trends in Nuclear Physics, held at Department of Physics, Aligarh Muslim University, Aligarh, India, during 20–21 October 2010.
27. National Conference on Recent Trends in Engineering & Mathematical Sciences (NCRTEMS-2011) at Applied College of Management & Engineering, Palwal (Haryana), India, during 24–25 February, 2011.
28. Workshop on Nanoscience and Nanotechnology (ALIGARH NANO-I) held at Dept. of Applied Physics, Aligarh Muslim University, Aligarh-202002, India, during 26–27 March 2011.
29. National Conference on Nanoscience and Nanotechnology (ALIGARH NANO-II) held at Dept. of Applied Physics, Aligarh Muslim University, Aligarh-202002, India, during 10–12 March 2012.
30. Workshop on Environmental Radioactivity Monitoring (WENREM) at SRI Guest House, Anupuram, Kalpakkam, Tamil Nadu, India, during December 10–11, 2012.
31. 19 th National Symposium on Radiation Physics (NSRP-19) at Radisson BLU Resort Temple Bay, Mamallapuram, Tamil Nadu, India during December 12–14, 2012.
32. National Conference on Nanoscience and Nanotechnology (ALIGARH NANO-III) held at Dept. of Applied Physics, Aligarh Muslim University, Aligarh-202002, India, during 15–16 March 2013.
33. National workshop on Syllabus Coverage and Lesson Planning held at Sobhasaria Group of Institutions, Sikar, Rajasthan, India, on 28 December 2013.
34. Nanotechnology seminar held at college of science, Majmaah University, KSA, on 13 April 2015.

Training Experience:

1. 62nd BRNS-IANCAS National Workshop on Radiochemistry and its Applications to Multiple Area held at Chemistry Dept., Mithibai College, Mumbai- 400056, India, during 28 Oct., to 11 Nov. 2006.
2. 65th BRNS-IANCAS National Workshop on Radiochemistry and Applications of Radioisotopes held at Dept. of Physics, Kurukshetra University Kurukshetra, Haryana, India, during 29 Nov., to 8 Dec. 2007.

3. Ph.D. course module on “Measurement Techniques and Cryogenics” at IUAC, New Delhi–110067, during 27 March to 27th April 2008.
4. Faculty development program held at Shri Jagdishprasad, Jhabarmal Tibrewala University, Jhunjhunu, Rajasthan, India, on 4 June 2013.
5. OHSAS 18001:2007, Occupational Health & Safety Management System awareness training held on 3rd–5th January 2015 at Majmaah University, KSA.
6. D2L & Black board at Majmaah University, KSA.

Research Project:

1. **“Measurements of Radon and Thoron in the Kingdom of Saudi Arabia for the assessment of health risk due to ionizing radiation”** has approved by Majmaah University in 2015.
2. **“Measurements of Radium Content and Radon Exhalation Rates Using Solid State Nuclear Track Detection Technique”** has approved by Majmaah University in 2018.

Foreign Visits:

Egypt	Invited Speaker, International workshop on Nuclear Sciences and its Peaceful applications (NSPA) at Faculty of Science, Cairo University, Egypt, during 17–19 March 2009.
Germany	Visited Frankfurt during 2–3 Sept 2011.
Mexico	To present research papers, 25 th International Conference on Nuclear Tracks in Solids at Instituto de Fisica, Universidad Nacional Autonoma de Mexico, Puebla, Mexico, during 4–9 September 2011.
Saudi Arabia	Working at Majmaah University, since Aug. 2014.

Fellowships/Awards/Grants:

1. Maulana Azad National Fellowship (MANF) during 01/04/2011 to 31/03/2013.
2. DST & CSIR grant to attend the “25th International Conference on Nuclear Tracks in Solids” held at Institute De Fisica, Universidad Nacional Autonoma de Mexico at Puebla, Pue, Mexico, during 4–9 September 2011.
3. International Centre for Theoretical Physics (ICTP) grant to attend the International workshop on Nuclear Sciences and its Peaceful applications (NSPA) held at Faculty of Science, Cairo University, Egypt, during 17–19 March 2009.
4. UGC fellowship during 01/01/2007 to 31/03/2011.

Memberships of Scientific and Technical Societies:

- 1- Life Member of Nuclear Track Society of India (NTSI).
- 2- Member of International Nuclear Track Society (INTS), Rome, Italy.
- 3- Member of International Geo-Hazards Research Society, Dresden, Germany.

Reviewer & Editor member of journals:

1. Environmental Earth Sciences (Springer).
2. Journal of Radioanalytical and Nuclear Chemistry (Springer).
3. Iranian Journal of Radiation Research.
4. Journal of Radiation Research and Applied Sciences (Sciencedirect).
5. Human and Ecological Risk Assessment: An International Journal. (Springer)
6. Nuclear Science and Techniques.
7. International Journal of Engineering and Mathematical Sciences.

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8. International Annals of Science.
 9. International Journal of Sustainable Built Environment (Sciencedirect).
 10. Aerosol and Air Quality Research.
 11. Medicinal & analytical chemistry international journal (MedWin Publishers).
 12. International Journal of Nuclear Medicine & Radioactive Substances (IJNMRS) (MedWin Publishers).

Administrative Experience:

1. Head & Assistant Professor, JJT University, Rajasthan, India
2. Ph.D Coordinator, JJT University, Rajasthan, India
3. B.Tech. I year Coordinator, Sobhasaria Group of Institutions, Rajasthan Technical University, India
4. Exam, e-exam, Rubric, Electronic education & Planning and development committee member, College of Science, Al-Zulfi, Majmaah University, Saudi Arabia.
5. Academic advisor, Deanship of Preparatory Year & College of Science, Al-Zulfi, Majmaah University, Saudi Arabia.
6. M.S course design committee member, College of Science, Al-Zulfi, Majmaah University, Saudi Arabia.
7. Training unit member, Deanship of Development and Quality Agency, Deanship of Preparatory Year, Al-Zulfi, Majmaah University, Saudi Arabia.

Computer Skills:

Microsoft Windows, Origin Lab., Microsoft Excel, Microsoft Word, Microsoft Power Point, Adobe Photoshop, CASSY LAB 2, ...etc.

Practical Skills:

- 1- Scanning Electron Microscope (SEM)
 - 2- Optical Microscope
 - 3- Spark Counting Technique
 - 4- Compton Scattering
 - 5- Rutherford Scattering
 - 6- Poisson Distribution
 - 7- Alpha Spectroscopy
 - 8- Gamma Spectroscopy
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