

CURRICULAM-VITAE

PERSONAL INFORMATION:

Name	-----	Dr. Mohammad Salim Ahmad Khan
Father's Name	-----	Late Mohammad Idrees Khan
Mother's Name	-----	Late Kitabunnisha
Date of Birth	-----	10 th March 1975
Current Designation	-----	Associate professor (Department of Physics)
College Name	-----	Gandhi Faiz-e-Aam College, Shahjahanpur (U.P.), India.
Date of Joining	-----	01.08.2003
E-mail Address	-----	salim_labphysics@rediffmail.com
Correspondence Address	-----	Chauk Aala Khan (Suraiyya Wala Bagh) Shahjahanpur (U.P.)-242001, India.
Permanent Address	-----	Village and Post Amouli-Dhamouli (Pachperwa) District Balrampur (U.P.) -271206, India.

ACADEMIC QUALIFICATION:

- Ph.D. from Mahatma Jyotiba Phule (M. J.P.) Rohilkhand University Bareilly in 2015.
- State Level Eligibility Test (SLET) in 2001.
- Graduate Aptitude Test in Engineering (GATE) in 2001.
- M.Sc. in physics with first division in 1998 from Ram Manohar Lohiya Awadh University (R.M.L.U.) Faizabad.
- B.Sc. in Physics, Chemistry and Mathematics (PCM) with first division in 2005 from Ram Manohar Lohiya Awadh University (R.M.L.U.) Faizabad.
- Intermediate with second division in 1992 from Uttar Pradesh (U. P.) Board Allahabad.
- High school with first division in 1990 from Uttar Pradesh (U. P.) Board Allahabad.

TEACHING EXPERIENCE:

- Continuously teaching since 01.08.2003 in UG Classes and from 2016 in P.G. Classes

RESEARCH ACTIVITIES:

Research Paper Published in International Journal

1. Measurement of radon (^{222}Rn) emanation coefficient in some building materials and internal hazards associated with exposure of alpha particles”, Asian Journal of Science and Technology, Vol. 11, Issue 07, pp. 11040-11043, July- 2020.
2. Study of relative alpha activities produced by different building materials in ambient air by cylindrical can technique. Pramana Research Journal, volume 10, issue 4, pp. 114- 119, April-2020.
3. Assessment of average annual effective dose and study of radon concentration in different types of water samples. Int. J. Adv. Res. 8(02), 190-193. Feb. 2020.
4. Effective dose measurements from radon ingestion and inhalation in drinking water, Int. Jour. of annals of natural sciences. Vol.5 (1), pp. 39-44. March-2019.
5. Measurements of radon permeability through different membrane materials by using surface barrier detector (SBD) technique. Int. J. Adv. Res. 7(11), 518-521. Nov. 2019.
6. Detection efficiency of alpha particles emitted by ^{222}Rn and ^{222}Rn progeny (^{218}Po and ^{214}Po) in the air of the diffusion chamber under the influence of electrets. International Journal of Current Research, Vol. 11, Issue, 09, pp.7184-7186(Sept. - 2019).
7. Measurement of the thickness of the removed active layer of cellulose nitrate CN-85 (LR-115, Type II) Solis State Nuclear track detector. International Journal of Current Research, vol. 11, Issue, 08, pp.6063-6065, August, 2019.
8. Measurement of Gross Alpha Contamination in Soil Sample by Using Solid State Nuclear Track Detector (SSNTD) Technique Measurement of Gross Alpha Contamination in Soil Sample by using Solid State Nuclear Track Detector (SSNTD) Technique. Int. Jour. of science and Research, volume 8, Issue 7, pp. 1468-1471, July 2019.
9. Applications of CR-39 detector film (Allyl Diglycol Carbonate) and its applications in neutron radiography. Int. jour. of annals of natural sciences, vol.4 (1), pp. 110-113, March 2018.
10. Energy harvesting through piezoelectric material at micro-scale level. Int. jour. of annals of natural sciences, vol.4 (3), pp. 37-42. Sept. 2018.
11. Calibration of cellulose nitrate ($\text{C}_6\text{H}_8\text{O}_8\text{N}_2$) solid state nuclear track detector CN-85(LR-115, Type II) for the measurements of radon concentration. IOSR Journal of Applied Physics, Vol.10, issue 6, ver.1, pp.09-11. (Nov.-Dec.2018).
12. Estimation of Equilibrium Factor, Equilibrium Equivalent Concentration and its Seasonal Variation in Indoor Atmosphere by Using Solid State Nuclear Track Detector (SSNTD)

- Technique. American International Journal of Research in Science, Technology, Engineering and Mathematics (AIJRSTEM), vol.3, Issue 15, pp.230-236, August, 2016.
13. Measurements of Radon Exhalation Rates from Some Building Materials by Using Solid State Nuclear Track Detector (SSNTD). American International Journal of Research in Science, Technology, Engineering & Mathematics, (AIJRSTEM), vol.2 Issue 16, pp. 107-111, Sep.-Nov., 2016.
 14. Comparative Study on Electrical and Dielectric Properties of Sintered Nano and Micro Silicon Nitride Ceramics. Int. J. of Modern Materials, Vol. 2, Issue 1, pp. 13-18, October, 2016.
 15. Microanalysis of Uranium by Using Solid State Nuclear Track Detector: Techniques, Problems, Prospects. Int. J. of Annals of Natural Science, Vol. 3(2), pp.10-15, June 2017.
 16. Residential ^{222}Rn and ^{220}Rn levels and associated effective dose rate, Int. J. of Annals of Natural Science, Vol. 3(3), pp.131-134, Sept. 2017.
 17. ^{222}Rn and ^{220}Rn in the Indoor Environment and Work Places, Int. J. of Annals of Natural Science, Vol. 3(4), pp.124-129, December 2017.
 18. Study of radon gas diffusion and its permeability through some building construction materials by using SSNTD technique. Int. J. of Acta Ciencia Indica, Vol. XLIII, P, No. 1, 25 Feb., 2017.
 19. Study of Radon Exhalation Rates in Coal Fly Ash Samples Collected from Rosa Thermal Power Plant (RTPP) Shajahanpur by Using SSNTD Technique. International Journal of Acta Ciencia Indica, Vol. XLIV, May 2017.
 20. Measurements of Radon Gas Concentration in Ground Water” by Using Radon Emanometer Technique (RET). American International Journal of Research in Science, Technology, Engineering and Mathematics (AIJRSTEM), vol.2, issue 11, pp.167-171, June-August, 2015.
 21. Radon Exhalation Rates and Radium Estimation Studies in Soil Samples. International Journal of Science and Research (IJSR), Vol.5 Issue 4, pp.99-103, April, 2016.
 22. Estimation of Equilibrium Factor, Equilibrium Equivalent Concentration and its Seasonal Variation in Indoor Atmosphere by Using Solid State Nuclear Track Detector (SSNTD) Technique. American International Journal of Research in Science, Technology, Engineering and Mathematics (AIJRSTEM), vol.3, Issue 15, pp.230-236, June-August, 2016.
 23. Measurements of Annual Exposure and Inhalation Dose due to Radon and its Progeny in the dwellings of Hardoi District (U.P.) by Using Solid State Nuclear Track Detector (SSNTD). International Journal of Physics and Mathematical Sciences, Vol.6 (2), pp.36-40, April-June, 2016.

24. Measurements and Seasonal Analysis of Radioactive Gases in the Environment of Rampur and Nearby Town (U.P.) by Using Solid State Nuclear Track Detector (SSNTD) Technique. Green Chemistry & Technology Letters Vol. 2, No 3, pp. 160-165, June 2016.
25. Estimation of Activity Concentration of Uranium, Thorium and Potassium by Using HPGe Detector. Oriental Journal of Physical Sciences, Vol.1 (1), pp 01-05, March, 2016
26. Study of Seasonal Variation of Indoor Radon, Thoron and Their Progeny Concentration. International Research Jour. of Management, Science and Technology vol.5, no.1, pp.37-43, 2014.
27. Environmental Monitoring Radon-Thoron Levels and Their Seasonal Variation in Some Selected Dwellings in and Around Rampur City Using Solid State Nuclear Track Detector (SSNTD). Int. J. of Engineering research and Application. vol.4, no.8, pp.151-157.2014.
28. Measurements of Radon Gas Concentration in Ground Water” by Using Radon Emanometer Technique (RET). American International Journal of Research in Science, Technology, Engineering and Mathematics (AIJRSTEM), vol.2, issue 11, pp.167-171, June-August, 2015.
29. Solid State Nuclear Track Detector (SSNTD) Applications in Neutron Radiography. Nature and Environment, Vol. 19(1), pp. 04-07, Jan., 2014.
30. Preliminary measurements of radon radiations in “Bare Mode” .IOSR Journal of Applied Physics., Vol.1, no.4, pp.04-07, 2012

Research Paper in Seminar/conference:

1. Presented a research paper entitled “parameters affecting the alpha particle registration and counting in LR-115 solid state nuclear track detector (SSNTD)” in a **National Seminar** on “Nano Technology and Green Chemistry” organized by Department of chemistry, G.F. college Shahjahanpur, U.P. (Dated: 02, Feb.2020)
2. Presented a research paper entitled “effect of westernization on various aspect of Indian society” in **National Conference** on “Scientific rationality and socio-cultural changes”(shifting socio-cultural dimension in semi-urban India in the age of modernity) organized by Govt. College Bisalpur,U.P. and sponsored by Dept. of higher education, Govt. of Uttar Pradesh.(Dated:20-21 January2018).
3. Presented a research paper entitled “Development of skill in science and technology education for sustainable development: An overview” in **National Seminar** on “skill development: Bridging gaps between entrepreneurship and academic excellence” organized by V.R.A.L Rajkiya Mahila Mahavidyalaya, Bareilly,U.P. and sponsored by Dept. of higher education, Govt. of Uttar Pradesh.(Dated: 06-07 January2018)

4. Presented a research paper entitled “Effective Dose Measurements From Radon Ingestion and Inhalation in Drinking Water” in **International Conference** on “New Frontiers in Biotechnology Science, Health and Medicine” GenoPro-2016, Organized by the Invertis University Bareilly. (Dated: 23-24 September, 2016).
5. Presented a research paper entitled “ Residential Radon and Thoron Levels and Associated Dose Rate Determination by Using Etch Track Detector Technique” **International Conference** on “New Scintillations on Materials Horizon (ICNSMH-2016)” Organized by the Department of Applied Physics, Faculty of Engineering & Technology, M.J.P. Rohilkhand University Bareilly. (Dated: 21-23, October, 2016).
6. Presented a research paper entitled “ Radiation Dose in the Indoor Atmosphere Due to Radon and Thoron” in the **National Conference** on “Modern Trends in Analytical and Environmental Physics” Organized by the Department of Physics ,Hindu College Moradabad.(Dated:17-18 October,2016)
7. Presented a research paper entitled “Small Scale Energy Harvesting Through Piezoelectric Crystals “in **National Seminar** on “Smart Cities” Organized by V. R. A. L. Rajkiya Mahila Mahavidala, Bareilly. (Dated: 08-09January, 2017).
8. Presented a research paper entitled “Radon (^{222}Rn) and Thoron (^{220}Rn) in the Indoor Environment and Work Places” in **National Seminar** on “Advances in Plant Science Frontier: Development and Environment” Organized by the Department of Botany, Gandhi Faiz-a-Aam College Shahjahanpur. (Dated: 26-27 November, 2016).
9. Presented a research paper entitled “ Registration and Counting of Alpha Tracks in Solid State Nuclear Tracks Detector (SSNTD)” in **National Conference** on Role of Science and Technology in Socio-Economic Development” Organized by “Dr. B.R. Ambedkar Government Degree College, Mainpuri (U.P.), Sponsored by Department of Higher Education, Government Of Uttar Pradesh.(28-29 February, 2016)
10. Presented a research paper entitled “Measurements and Seasonal Analysis of Radioactive Gases in the Environment of Rampur and Nearby Town(U.P.) by Using Solid State Nuclear Track Detector(SSNTD) Technique” in **International Conference** on “ Innovations in Chemical, Biological and Environmental Sciences” Organized by the Department of Chemistry S.S. P.G. College Shahjahanpur. (Dated:12 February 2016)
11. Presented a research paper entitled “Role of Science in Environmental Ethics and Human Values” in **National Seminar** on “Promotion of Ethics and Human Values” Organized by the Department of Political Science. G,F, College Shahjahanpur.(Dated: 01 February, 2016)

12. **Attended a National Seminar** on “Reshmi Rupal Tahreek” Organized by Department of Political Science, G.F. (P.G.) College Shahjahanpur (Dated: 15-16 December, 2015).
13. Presented a research paper entitled “Assessment of Radon (^{222}Rn) Radiation Exposure Dose in the Indoor Atmosphere” in the **National Conference** on “Brass Metal Works, Health and Environment” Organized by the Department of Chemistry (Sponsored by ICSSR), Moradabad Muslim Degree College, Moradabad. (Dated: 02-03 May, 2015)
14. **Attended a National Seminar** on “ Atomic Energy in the Service of the Nation” (ASEN-2015) Organized by Department of Physics, Bareilly College, Bareilly in Association With the Bhabha Atomic Research Centre, Mumbai. (Dated: 01 March, 2015).
15. Presented a research paper entitled “Globalization and Human Development for Developing Countries” in **International Seminar** on “Human Development in Developing Nations” Organized by Faculty of Commerce and Research Studies, S.S. P.G. College Shahjahanpur.(Dated: 26-27 February, 2015)
16. Presented a research paper entitled “Brainstorming Conference on STI Policy Implementation” organized by Zaheer Science Foundation(ZSF), New Delhi and Bareilly Science Club, Sponsored by **Department of Science and Technology (DST), Government of India**.(Dated: 08 January, 2014).
17. Presented a research paper entitled” Thoron (^{220}Rn) in the Environment and its Related Issues” in **National Seminar** on “Role of Bio-Sciences to Save Environment” Organized by the Department of Chemistry, Kisan P.G. College Bahraich .(Dated: 6-7 October, 2012).
18. **Attended a National Seminar** on “Ion Beam Based Research in India and Acquaintance Programme on Ion Beam Facilities at IUAC New Delhi. (Dated: 23, March 2012)
19. Presented a research paper entitled “Equilibrium Factor Determination by Using Solid State Nuclear Track Detector(SSNTD)” in **National Conference** on “ Advancements and Futuristic Trends in Material Science (AFTMS-2011)” Organized by the Department of Applied Physics, Faculty of Engineering & Technology , M.J.P. Rohilkhand University Bareilly.(Dated: 26-27, March 2011)
20. Presented a research paper entitled “Characteristics and Processing of Smart Materials” in **National Conference** on “Synthesis and Characterization of smart material (SCSM-2009)” Organized by Department of Physics, Bareilly College, Bareilly. (Dated: 12-14 September, 2009).
21. Presented a research paper entitled “Estimation of Risk Due to Environmental ^{222}Rn and ^{220}Rn Exposure in the Dwellings” in **National Symposium** on “Nanoscale Science and Technology” Organized by the Department of Physics Maharaj Singh (P.G.) College, Saharanpur.(dated, 21-22, August-2009)

22. **Attended a National Seminar** on “Intellectual Property Rights”. Sponsored by CST, UP, TIFAC, DST, and New Delhi, Organized by G. F. College Shahjahanpur (Dated: 12 Jan, 2008).

National/International Webinar

1. **International E-Conference** on “Emerging Advances in Mathematical and Physical Sciences (IECEAMPS)” jointly organized by Department of Mathematics and Physics, Hindu College, Moradabad, M. J. P Rohilkhand University, Bareilly(June 28-30, 2020).
2. **National Webinar** on “Environment and Human Life in Global Pandemic” organized by Department of Physics and IQAC N.M.S.N Dass P.G. College Badaun (June 14, 2020).
3. One day webinar on “virtual lab” organized by F. E.T, M. J.P. Rohilkhand University, Bareilly (6th June, 2020).
4. **International webinar (E-Conference)** on “Recent developments in materials science” organized by Department of Physics, St. Andrews P.G. College, Gorakhpur (June 02-03, 2020).
5. **National webinar** on “Role of science and technology in present scenario: A sustainable development of the nation” organized by Department of physics, Bareilly college Bareilly (May 31, 2020).

TEXT BOOK:

1. One Text book of B.Sc. third year title “**Solid State and Nuclear Physics**” is published as co-author in 2017, Published by Krishna Prakashan Media (P) Ltd., Meerut. **ISBN: 81-8283-810-X**
2. One Text book of B.Sc. first year title “**Circuit Fundamental and Basic Electronics**” is published as single author in 2019 & 2020 (First& Second edition). Published by **Neel Kamal Publication, New Delhi. ISBN: 818896284-8 &938795102-2**
3. One book of title “Environmental Radon Monitoring” is published as single author in 2018(First edition). Published by **Neel Kamal Publication, New Delhi.**

CHAPTER IN BOOK

1. One Chapter entitled “techniques for the measurements of indoor/outdoor radon concentration” is published in a book of title “**Emerging Advances in Mathematical and Physical Sciences (IECEAMPS)**”. Published by Walnut publication (Vyusta Ventures LLP), Bhubaneswar, India (First Published in 2020). **ISBN No: 978-939026168-0, Page no. 167-174.**
2. One Chapter entitled “**parameters affecting the alpha particle registration and counting in LR-115 solid state nuclear track detector (SSNTD)**” is published in a book of title “**Nano Tecnology and Green Chemistry**” (First Published in 2020). **ISBN No. 818896283-X**
3. One Chapter entitled “**effect of westernization on various aspect of Indian society**” is published in a book of title “**Scientific rationality and socio-cultural changes**” (shifting socio-

cultural dimension in semi-urban India in the age of modernity) (First Published in 2018). **ISBN: 8188962759. Page no. 207-210.**

4. One Chapter entitled **“Development of skill in science and technology education for sustainable development: An overview”** is published in a book of title **“skill development: Bridging gaps between entrepreneurship and academic excellence”** (First Published in 2018). **ISBN: 978-93-83954-52-0. Page no. 165-169.**
5. One Chapter entitled **“Small Scale Energy Harvesting Through Piezoelectric Crystals** “is published in a book of title **“Smart Cities: A stride to Improve Citizens Quality of Life”** (First Published in 2017). **ISBN: 9789383954391. Page no. 87-91.**
6. One Chapter entitled **“Role of Science in Environmental Ethics and Human Values”** is published in a book of title **“Promotion of Ethics and Human Values”**. **Published by DARUL-ESHAAT-E-MUSTAFAI, Delhi, India** (First Published in 2016). Page: 143-149, **ISBN No: 81-88891-60-6.**

TRAINING COURSE:

1. Five- Days Faculty Development Programme on **“Teaching through E-Learning Technologies: Development of E-Content”** from May 31st to June 4th, 2020 organized by IIPA Bareilly Chapter and ABV-IIITM Gwalior.
2. Ten days webinar cum workshop on **“performing and designing Experiments on virtual platforms”** organized by M. J.P. Rohilkhand University, Bareilly in association with IIT Roorkee during 8th June to 17th June, 2020.
3. Seven days training programme on **Academic Leadership from 20 July 2017 to 26 July 2017** at Gandhi Gandhi Faiz-e-Aam College, Shahjahanpur (U.P.). Organized by Centre for **Academic Leadership & Education Management** Under the Scheme of **Pandit Madan Mohan Malaviya National Mission on Teachers & Teaching (PMMMNTT)(MHRD, Govt. of India).UGC, Human Resource Development Centre, Aligarh Muslim University Aligarh(U.P.), India**
4. Six days training workshop on **“Innovative Research on Materials in Science and Engineering”** Organized by Department of Applied Physics, Faculty of Engineering & Technology, M.J.P. Rohilkhand University Bareilly, Under Faculty Development Programme (FDP) Sponsored by World Bank Under TEQIP II.(Dated: April 17-22, 2016).
5. Six days training workshop on **“Futuristic Materials: Characterization, Properties and application in Technology (FMCPAT)”** organized by Department of Applied Physics, Faculty of Engineering & Technology, M.J.P. Rohilkhand University Bareilly, Under Faculty development Programme (FDP) sponsored by World Bank under TEQIP II.(Dated: July 17-22, 2014).

6. Five days training programme on “**Science Communication by Blog Lekhen**” sponsored by National Science and Industrial Council (NCSTC), NEW Delhi and Team for Scientific Awareness on Local Issues in Indian Masses.(Dated: July 27-31, 2013)

RESEARCH PROJECT:

1. One UGC Minor Research Project is Sanctioned of Amount Rs. 5, 00,000 in 2016 but fund was not granted.

REFRESHOR COURSE/ORIENTTION PROGRAMME:

1. **Refresher course in Women’s Studies** (Interdisciplinary) from UGC Academic Staff College, A.M.U. Aligarh (Dated: from 30.01.2013 to 19.02.2013).
2. **Refresher course in Environmental Studies** (Interdisciplinary) from UGC Academic Staff College, A. M. U. Aligarh (Dated: from 20.07.10 to 10.08.10).
3. **Refresher course in Physics** from UGC Academic Staff College, H.P. University, Shimla (Dated: from 11.03.08 to 31.03.08)
4. **Orientation Programme** from UGC Academic Staff College, A.M.U. Aligarh (Dated: from 13.07.05 to 09.08.05).
