

CURRICULUM VITAE

Dr. T. S. SHASHI KUMAR
Assistant Professor,
Department of Physics
P.E.S. College of Engineering
Mandya-571 401, Karnataka.

Res: # 50, LIG, 11th cross,
Gangothri Layout,
Mysore – 570 009,
Karnataka.

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Google Scholar ID: <https://scholar.google.com/citations?user=DL6FWgsAAAAJ&hl=en>

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Scopus Author ID: 24342231700

Research Interests: Studying long-term trends and seasonal variations of radioactive elements in natural environment using Nuclear Instruments and interested in Earth sciences/Atmospheric sciences research studies.

Education:

2005-2010

Doctor of Philosophy (Ph.D.) in Physics

Department of Studies in Physics, University of Mysore, Mysore, India

Title of the Ph.D. thesis: “Studies on radon in soil gas and its concentration in the atmosphere at Mysore”.

2002-2004

Master of Science (M.Sc.) in Physics

(Specialization: Nuclear Physics)

Department of Studies in Physics, University of Mysore, Mysore, India

1999-2002

Bachelor of Science (B.Sc.)

(Specialization: Physics, Mathematics & Electronics)

Yuvaraja’s College, University of Mysore, Mysore, India

Research Experience:

2005-2007

Junior Research Fellow,

Department of Studies in Physics, University of Mysore, India.

2007-2010

Senior Research Fellow,

Department of Studies in Physics, University of Mysore, India.

2010-till date: Active in research work by publishing research papers

Academic Experience:

- ❖ Presently working as Assistant Professor in the department of Physics in P.E.S College of Engineering (An Autonomous Institution under Visvesvaraya Technological University, Belgaum), Mandya, Karnataka, from 07-03-2014 to till date (9.4 years).
- ❖ Worked as Assistant Professor of Physics (PG Department) in B.E.T Academy of Higher Education (Affiliated to University of Mysore), Bharathinagara (K.M.Doddi), Maddur Taluk, Mandya District, Karnataka, from 01-04-2011 to 05-03-2014 (3 years).
- ❖ Experience in setting the New Laboratories of Electronics, Optics, Nuclear Physics and Computer Lab for M.Sc Physics in BET Academy of Higher Education.
- ❖ Four years of experience in teaching Electronics and General Nuclear Physics Laboratory for 2 Year M.Sc (2 years) and 5 Year Integrated M. Sc (2 years) in the Department of Studies in Physics, University of Mysore, Manasagangothri, Mysore, India.

Awards & Fellowships:

- **Senior Research Fellow:** University Grant Commission - Rajiv Gandhi National Fellowship for SC/ST candidates (2007-2010).
- **Junior Research Fellow:** University Grant Commission - Rajiv Gandhi National Fellowship for SC/ST candidates (2005-2007).
- **Junior Research Fellow:** University Post-graduate Research Fellowship awarded by Special Cell for SC/ST candidates, University of Mysore (2005-2007).
- **Best Poster Presentation Award** for the research paper “Radon in soil and its concentration in the Atmosphere around Mysore”, in Fifteenth National Symposium on Solid State Nuclear Track Detectors and Their Applications (SSNTD-15) held on June 21-23, 2007 by Department of Physics, H.N.B. Garhwal University, Badshahi Thaul Campus, Tehri Garhwal, Uttaranchal, India.
- **Best Oral Presentation Award** for the research paper “Radon concentration in the water samples of Hassan district, Karnataka, India”, in 18th International Conference on Applied Physics (ICAP-2015) held by World Academy of Science, Engineering and Technology (WASET) - An International Scientific Research and Experimental Development Committee, at Wembley, London, United Kingdom during August 25-26, 2016.

- “**Chaired a Session**” in 18th International Conference on Applied Physics (ICAP-2015) held by World Academy of Science, Engineering and Technology (WASET) - An International Scientific Research and Experimental Development Committee), at Wembley, London, United Kingdom during August 25-26, 2016.

Ph.D. Guidance:

Sl. No	Name of the Guide/Co-Guide	Name of the Candidate	Title	University	Ph.D. Enrolled/Registered/Awarded
1.	Dr.T.S.Shashikumar (Co-Guide)	Mr. K. N. Narasimhamurthy	"Measurements & Theoretical Modeling of ²²² Rn in Indoor & Outdoor Air"	VTU, Belgaum	Awarded on (29/07/2022)
2.	Dr.T.S.Shashikumar (Guide)	Mr. Ramachandra M. N.	Studies on Radon Soil Gas in and around Mandya City	VTU, Belgaum	Registered

Review Activity

Sl. No.	Name of the Journal	Review Date	ISSN	Role	Organization
1	International Journal of Environmental Science and Technology	2022	1735-1472	Reviewer	Springer Nature (New York, US)

Project works:

Sl. No.	Title of the Project work	Submitted Towards	Year of Submitted/Completed
1	“WAXS Studies of Cotton Fibers”: (LRA Sample)	Department of Studies in Physics, Manasagangothri, University of Mysore, Mysore.	2004 (Completed during 2 nd year M.Sc.)

Membership in Academic Bodies:

Serial No.	Name of the Organization	Board	Position
1.	Board of Examiners of UG, Pareeksha Bhavana, Jana Bharathi Campus, Benagloru-560056, Karnataka	BOE	Member
2.	P.E.S College of Engineering (An Autonomous Institution under Visvesvaraya Technological University, Belgaum), Mandya, Karnataka	BOE	Member
3.	World Academy of Science, Engineering and Technology (WASET), PO Box:982, Riverside, Conneticut, CT 06878, USA	Scientific and Technical Committee and Editorial Review Board on Physical and Mathematical Sciences	Member

Membership in Academic Societies:

Serial No.	Name of Society	Affiliation	Position	Remarks
1.	Indian Aerosol Science and Technology Association (IASTA)	BARC, Mumbai	Life member	--
2.	Nuclear Track Society of India (NTSI)	BARC, Mumbai	Life member	--
3.	Indian Society for Radiation Physics (ISRP)	KALPAKKAM, Chennai	Life member	--
4.	Indian Science Congress Association (ISCA)	Kolkata	Life member	--
5.	Karnataka State Scientific Research Council (KSSRC)	Doddaballapur	Life member	--

Responsibilities taken:

Serial No.	Name of Society/Committee	Position	Remarks
1.	PET Research Foundation, PES College of Engineering, Mandya, Karnataka	Department Research Coordinator (From 2019 to till date)	--
2.	NAAC-SSR Committee, PES College of Engineering, Mandya, Karnataka	Department Coordinator (From 2018-19)	--
3.	Magazine Committee, P.E.S College of Engineering, Mandya, Karnataka	Member	--
4.	NBA Committee, PES College of Engineering, Mandya, Karnataka	Criterion 8 Coordinator (From 2019 to till date)	--
5.	IQAC Committee, PES College of Engineering, Mandya, Karnataka	Department Coordinator (From 2019-2020)	--
6.	Learning Management System, PES College of Engineering, Mandya, Karnataka	Department Coordinator (2020)	--
7.	ICT Academy, PES College of Engineering, Mandya, Karnataka	Department Coordinator (2020)	--
8.	My-Gurukul Academic Automation software, PES College of Engineering, Mandya, Karnataka	Department Coordinator (From 2020-2022)	--
9.	Jnana Cauvery Committee, PES College of Engineering, Mandya, Karnataka	Over all event Committee (From 2022)	
10.	PET Science Park, PES College of Engineering, Mandya, Karnataka	Coordinator (From 2023)	--
11.	NBA Committee, PES College of Engineering, Mandya, Karnataka	Criterion 8, 9 & 10 Coordinator (From 2023)	--

Personal Details:

Date of Birth / Age : 4th September 1979 / 40 years
Nationality : Indian
Gender : Male
Marital Status : Married
Languages known : Kannada, English and Hindi

Computational Skills:

- Operating Systems: Linux and Windows
- Software Packages: LaTeX and ORIGIN
- Languages : C

Publications Details (National & International) with ISBN and ISSN Numbers:

1. Study of variation of indoor radon levels in houses and prediction of indoor concentrations using house characteristics and outdoor radon levels. Narasimhamurthy, K. N., Ashok, G. V., Raghu, A., Nagaiah N., **Shashikumar, T. S.**, Harish, V., and Shivaprasad, N. G. (*Communicated to Radiation Protection Dosimetry Journal, UK, 2023*).
2. Ambient gamma radiation level around Kaveri river basin, Karnataka state, India. Niranjana, R. S., Sadashivaiah, T., Sannappa, J., **Shashikumar, T. S.**, Shivalinge Gowda., Anadaram, B. N., Ningappa, C. (*Communicated to Radiation Protection Dosimetry Journal, UK, 2023*).
3. Estimation of indoor and outdoor effective doses and lifetime cancer risk from gamma dose rates in and around Mandya district, Karnataka. **T. S. Shashikumar**, Ramachandra, M. N., Chandrashekar, and Shivalinge Gowda. *Radiation Protection Dosimetry, UK, Vol.198, Issue 20, Page 1540-1545, (2022), doi.org/10.1093/rpd/ncac199, [ISSN: 0144-8420]. (IN)*
4. Oxidation study of Piperazine by N-Chloro-P-Toluenesulphonamide [CAT] in acidic buffer medium: kinetic and mechanistic aspect. Chandrashekar., Harsha, M., Charan Kumar, H. C., **Shashikumar, T. S.** *Journal of Emerging Technologies and Innovative Research, Vol.8 (12), Page b88-b97, (2021), [ISSN: 2349-5162]. (IN)*
5. A Study on the radiation dose due to dissolved ^{222}Rn in water samples of Mandya city, Karnataka, India. Narasimhamurthy, K. N., Ashok, G. V., **Shashi kumar, T. S.**, Nagaiah, N., and Karthik kumar, M. B. *Radiation Protection Dosimetry, UK, Vol.194 (2-3), Page 113-120, (2021), doi.org/10.1093/rpd/ncab084, [ISSN: 0144-8420]. (IN)*
6. Photon attenuation studies on human teeth and its substitutes. Harish, V., Shiva Prasad, N. G., Narasimhamurthy, K. N., Navitha, G., Ashok, G. V., and **Shashi kumar, T. S.** *Proceedings of International Level Seminar on Recent Trends in Physics with Emphasis on Discovery of God Particle, Vol. 1 (1), Page 176 – 187, (2021) [ISBN: 978-93-88956-41-3]. (N)*

7. Studies on radon and thoron levels in few dwellings of Kabini River Basin, Karnataka State, India. Yashaswini T, C Ningappa, M C Subbaramu, R S Niranjana, **T S Shashikumar** and S Suresh. Journal of Radioanalytical and Nuclear Chemistry, Netherlands, Vol.326 (1), Page 281-291, (2020). doi:10.1007/s10967-020-07328-w, [ISSN: 0236-573X]. (IN)
8. Studies on ^{222}Rn and ^{220}Rn concentrations in some dwellings of Mandya city and its surroundings, Karnataka, India. K N Narasimhamurthy, G V Ashok, **T S Shashikumar**, and N Nagaiah. Indoor and Built Environment, UK, Vol.30 (8), Page 1295-1304, (2020). doi:10.1177/1420326X20931590, [ISSN: 1420-326X]. (IN)
9. Studies on gamma dose rates in indoor and outdoor environment of Hassan city, Karnataka. **Shashikumar T S**, C Ningappa, Shivalinge Gowda and Chandrasekhar. Radiation Protection Dosimetry, UK, Vol.188 (4), Page 516-521, (2020), doi:10.1093/rpd/ncaaa03, [ISSN: 0144-8420]. (IN)
10. Measurement of Radon soil gas in and around Bharathinagara, Mandya District. **Shashikumar T S**, S Revanna, M N Ramachandra, G V Ashok, C Ningappa and Shivalinge Gowda. Radiation Protection Dosimetry, UK, Vol.187 (1), Page 83-87, (2019), doi:10.1093/rpd/ncz143, [ISSN: 0144-8420]. (IN)
11. The study of effective atomic number and electron densities of some steel alloy coronary stents. G V Ashok, N Nagaiah, K N Narasimhamurthy, H C Manjunatha, A N Prema, **T S Shashikumar**, R S Madhukeshwara. (Intellectuals Society for Socio-Techno welfare) ISST Journal of Applied Physics, Vol 9 (1), Page 42-43, (2018), [ISSN: 0976-903X]. (N)
12. Electro-optical phase transition studies of chiral smectic phase of nematic and cholesteric materials. T N Govindaiah, B N Ramakrishna and **T S Shashikumar**. Asian Journal of Science and Applied Technology. Vol.7, No. 2, Page 24-26, (2018), [ISSN: 2249-0698]. (N)
13. Photon interaction studies of cobalt alloy steel stents in the energy range 1 KeV to 100 GeV. K N Narasimhamurthy, G V Ashok, Prema, **T S Shashikumar** and R S Madhukeshwara. Tumbe Group of International Journals (A Multidisciplinary Journal), Vol.1 Issue-2, Page 16-19, (2018), [ISSN: 2581-8511]. (IN)
14. Photon interaction studies of Cr-Ni-Mo steel alloy coronary stents in the energy range 1 KeV to 100 GeV. G V Ashok, N Nagaiah, K N Narasimhamurthy, H C Manjunatha, A N Prema, **T S Shashikumar**, R S Madhukeshwara. Proceedings of National Conference on Radiation Physics and its applications in Material Science and Medicine, Vol.II, Page 69-70, (2018), [ISBN: 978-93-5682-405-8]. (NC)

15. Radon Concentration in the Water Samples of Hassan District, Karnataka, India. **T S Shashikumar**, International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering, Vol.10, No.8, Page 1028-1032, (2016), doi.org/10.5281/zenodo.1126097. (INC)
16. Oxidation of Amitriptyline by Bromamine-T in Acidic Buffer Medium: A kinetic and Mechanistic Approach. Chandrashekar, R T Radhika, B M Venkatesha, S Ananda, Shivalingegowda, **T S Shashikumar** and H Ramachandra. International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering, Vol.10, No.8, Page 1070-1075, (2016). (INC)
17. Analysis of ^{226}Ra , ^{232}Th and ^{40}K in the host rock and the soil samples and assessment of radiological risks for Mandya region, India. Shivakumara B C, M S Chandrashekara, L Paramesh, **T S Shashikumar** and Karunakara N. International Journal of Integrative Sciences, Innovation and Technology, Vol.3, Issue 2, Page 18-24, (2014), [ISSN: 2278-1145]. (IN)
18. Radioactivity Concentration of ^{226}Ra , ^{232}Th and ^{40}K in Soil, Rock and Water samples around Mysore city and its Biological Effects. **Shashikumar T S**, M S Chandrashekara and L Paramesh. International Research Journal of Applied sciences, Vol. 1, Issue 1, Page 22-25, (2014), [ISSN: 2348-9022]. (IN)
19. Studies on Radon in soil gas and Natural radionuclides in soil, rock and ground water samples around Mysore city. **Shashikumar T S**, M S Chandrashekara and L Paramesh. International Journal of Environmental Sciences, Vol. 1, No. 5, (2011), 786-797, [ISSN: 0976-4402]. (IN)
20. Variations of Radon and Thoron concentrations in different types of dwellings in Mysore city, India. **Shashikumar T S**, M S Chandrashekara, N Nagaiah, and L Paramesh. Radiation Protection Dosimetry, UK, Vol. 133 (1), (2009), 44-49; doi: 10.1093/rpd/ncp001. [ISSN: 0144-8420]. (IN)
21. Radon in soil and its concentration in the atmosphere around Mysore. **Shashikumar T S**, N Ragini, M S Chandrashekara and L Paramesh, Indian Journal of Physics, Vol. 83 (8), (2009), 1163-1169, [ISSN: 0973-1458]. (N)
22. Analysis of ^{226}Ra and ^{222}Rn concentration in natural water of Mandya District, Karnataka State, India. B C Shivakumara, M S Chandrashekara, L Paramesh and **T S Shashikumar**.

- Proceedings of National Seminar on Materials science and Engineering, (2014), 40-43, [ISBN: 978-81-929372-0-5]. (NC)
23. Studies on variation of $^{222}\text{Rn}/^{220}\text{Rn}$ and their decay products in few villages around Mysore city, India. **T. S. Shashikumar**, Shivakumara B C, Pruthvi Rani K S, M S Chandrashekara and L Paramesh. Current perspectives on Environmental protection, Proceedings of Eighteenth National Symposium on Environment, BARC, (2013), 163-166, [ISBN: 978-81-7800-287-3]. (NC)
 24. Study on natural radioactive elements in soil and rock samples around Mandya district, India. Shivakumara B C, L Paramesh, **T. S. Shashikumar** and M S Chandrashekara. Journal of Radiation Protection and Environment, Vol. 35, Issue 1, (2012), 29-33, [ISSN: 0972-0464]. (N)
 25. Variations of ion pair production rate and inhalation dose due to radon and its progeny at different locations in Mysore city, India. M S Chandrashekara, B M Rajesh, **T S Shashikumar** and L Paramesh. Ind. Aer. Sci. Tech. Assn. Bull., Vol. 19, No.1&2 (2010) 283-288, [ISSN: 0971-4570]. (NC)
 26. Studies on variations of trace gases and particulate matters in Mysore City, India. **Shashikumar T S**, M S Chandrashekara, N Ragini, B M Rajesh and L Paramesh. Ind. Aer. Sci. Tech. Assn. Bull., Vol. 19, No.1&2 (2010), 579-581, [ISSN: 0971-4570]. (NC)
 27. Studies on radon in soil, its concentration in the atmosphere and gamma exposure rate around Mysore city, India. **Shashikumar T S**, N Ragini, M S Chandrashekara and L Paramesh. Current Science, Vol. 94, No. 9 (2008), 1180-1185, [ISSN No: 0011-3891]. (N)
 28. Atmospheric electrical conductivity near the ground surface related to radioactivity and air pollution at three different locations in Mysore. Ragini N, M S Chandrashekara, L Paramesh, **T S Shashikumar** and J Sannappa. Environmental Science: An Indian Journal Vol. 3, No.1 (2008), 64-70, [ISSN No: 0974-7451]. (N)
 29. Temporal and vertical variations of atmospheric electrical conductivity related to radon and its progeny concentrations at Mysore. Ragini N, **T S Shashikumar**, M S Chandrashekara, J Sannappal and L Paramesh. Indian Journal of Radio and Space Physics, Vol. 37, No.4 (2008), 264-271, [ISSN: 0367-8393]. (N)
 30. Studies on atmospheric electrical conductivity related radon and its progeny concentrations at two different places in Mysore (12°N , 76°E), India. Ragini N, **T S Shashikumar**,

M S Chandrashekara and L Paramesh. Ind. Aer. Sci. Tech. Assn. Bull., Vol. 18, No.1&2 (2007), 234-236, [ISSN: 0971-4510]. (NC)

Publications Details in Proceeding:

1. Ambient gamma radiation level around kavery river basin, Karnataka state, India. T Sadashivaiah, R S Niranjana, J Sannappa, **T S Shashikumar**, Shivalinge Gowda, B N Anadaram and C Ningappa. *Proceedings of 23rd National Symposium on Radiation Physics (NSRP-23)*, (2023), 479.
2. Studies on ^{226}Ra , ^{232}Th and ^{40}K radionuclides in Soil and Rock samples around Mysore city. **Shashikumar T S**, L Paramesh and M. S. Chandrashekara. *Proceedings of 18th National Symposium on Radiation Physics (NSRP-18)*, Himanshu publisher, Udaipur, (2010), 361.
3. Studies on Radon, Thoron and its progeny concentration in the atmosphere and Gamma exposure rate around Mysore city. **T S Shashikumar**, M S Chandrashekara, B M Rajesh and L Paramesh. *Proceedings of National Symposium on Radiation Physics and Nanomaterials (NSRPN-11)*, (2011), 123.
4. Study of Gamma Exposure Rate in Chamaraja Nagar District, India. K M Nagaraj, B M Rajesh, **T S Shashikumar**, M S Chandrashekara and L Paramesh. *Proceedings of National Symposium on Radiation Physics and Nanomaterials (NSRPN-11)*, (2011), 140.
5. Radon exhalation rate from soil and building materials of chamaraja Nagar District, India. B M Rajesh, K M Nagaraj, **T S Shashikumar**, M S Chandrashekara and L Paramesh. *Proceedings of National Symposium on Radiation Physics and Nanomaterials (NSRPN-11)*, (2011), 141.
6. Seasonal variations of Rn-222, Rn-220 and their decay products at different villages around Mysore, India. **T S Shashikumar**, M S Chandrashekara, and L Paramesh. *Proceedings of 19th National Symposium on Radiation Physics (NSRP-19)*, (2012), 452.
7. Evaluation of natural radioactivity in soil and rock samples around Mandya district, India. **Shashikumar T S**, Shivakumara B C, M S Chandrashekara and L Paramesh. *Proceedings of 19th National Symposium on Radiation Physics (NSRP-19)*, (2012), 538.

**Consolidated List of National and International -
Seminars/Workshops/Conference/Symposiums Webinars attended:**

1. Participated in Two weeks Industrial Training on “Hydraulics and Pneumatics” organized by Government Tool Room and Training Centre (GTRTC), Somanahalli, Maddur held from 15th to 29th March 2023.
2. Participated in 5 days Faculty Development Programme on “Emerging Topics in Applied Physics”, organized by Departments of Basic Science, Srinivas Institute of Technology, Valachil, Mangaluru held from 30th January to 03 February 2023.
3. Ambient gamma radiation level around kavery river basin, Karnataka state, India. 23rd National Symposium on Radiation Physics (NSRP-23) held at Department of Studies in Physics, University of Mysore, Mysore from January 19-21, 2023 (Poster Presentation).
4. Participated in Orientation/Refresher Programme on “Design Thinking”, organized by VTU, Mysore, from 07th to 12th March 2022.
5. Participated in “Online user awareness program on Springer Nature e-resources” jointly organized by VTU Consortium and Springer Nature, held on 25th January 2022.
6. Participated in “Online user awareness program on Springer Nature e-resources” jointly organized by VTU Consortium and Springer Nature, held on 11th January 2022.
7. Participated in “Online user awareness program on Springer Nature e-resources” jointly organized by VTU Consortium and Springer Nature, held on 13th December 2021.
8. Participated in “Online user awareness program on Springer Nature e-resources” jointly organized by VTU Consortium and Springer Nature, held on 3rd December 2021.
9. Participated in “Online user awareness program to demonstrate Springer link platform for VTU Consortium” jointly organized by VTU Consortium and Springer Nature, held on 25th November 2021.
10. Participated in National Conference on Recent Advances in Nanoscience and Nanotechnology organised by Department of Physics, Vidyavardhaka College of Engineering, Mysuru during 11 to 13th November 2021.
11. Participated in Faculty Development Programme on “Particle Accelerators: Current and Future Applications”, organized by Department of Physics, Davanagere University, Davanagere, held on 19th July 2021.
12. Participated in TEQIP-III sponsored One Week Short Term Course on Advanced Energy Materials conducted by Department of Physics, from 12th to 16st October 2020 (One Week) at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India.

13. Participated in Faculty Development Programme on MEMS Design, organized by Nitte Meenakshi Institute of Technology, Bangalore, held from 7th to 12th September 2020.
14. Participated in the webinar series on “Aatmanirbhar Bharath: Swathanthra Bharathada Shreshta Nirmanakke Nirbhara Bharatha Thathvada Koduge” organized by Government of India Field Outreach Bureau: Mysore, in association with ATME College of Engineering, Mysore held on 12th August 2020.
15. Participated in the webinar series on “Aatmanirbhar Bharath: Swathanthra Bharathada Shreshta Nirmanakke Nirbhara Bharatha Thathvada Koduge” organized by Government of India Field Outreach Bureau: Mysore, in association with ATME College of Engineering, Mysore held on 5th August 2020.
16. Participated in Webinar on “Vikram Sarabhai Centenary Talks” organized by Team 2020 community held on 12st August 2020.
17. Participated in Webinar on “Space Debris Management” organized by Team 2020 community held on 07st August 2020.
18. Participated in Multidisciplinary-Five Day International Faculty Development Programme on “Perspective of Human Health and Environment” organized by the Science Forum-Scientia, S.J.R College for Women, Bengaluru from 3rd to 7th August 2020.
19. Participated in IQAC Initiated UGC-STRIDE Sponsored Two day International e-Conference on “Material Science and Technology-2020” organized by KLE Society’s S. Nijalingappa College, Bangalore, India held on 09st and 10th October 2020.
20. Participated in Webinar on “Opportunities in Geospatial Technology” organized by Visvesvaraya Technological University and KLS Gogte Institution of Technology, Belagavi in association with TEQIP-III and Esri India held on 04st August 2020.
21. Participated in One-day live National Webinar on “Physics Teaching and Research in Universities: Challenges and Prospects” organized by Department of Post-Graduate Studies and Research in Physics, Gulbarga University, Kalaburagi held on 01st August 2020.
22. Participated in the International Symposium on “Advanced Research in Physics” organized by the Department of Physics, Bangalore University, Bengaluru in association with Sir M Visvesvaraya – ISRO Chair, Bangalore University, Bengaluru, India during 27-31, July 2020.
23. Participated in One-day National Webinar on “quantum computing: fundamentals and practical implementation” organized by the Department of Physics, GSSS Institute of Engineering & Technology for Women, Mysuru on 28th July 2020.

24. Participated in One-day National Webinar on “Trends in Higher Education – Role of Internal Quality Assurance Cell (IQAC)” organized by the Internal Quality Assurance Cells of the Tamil Nadu Teachers Education University, Chennai and Sri Ramakrishna Mission Vidyalaya College of Education (Autonomous), Coimbatore on 16th July 2020.
25. Participated in Interdisciplinary Technical Webinar on Progress of Nano Materials and its Application in New Technologies organized by Department of Chemistry and Mechanical Engineering, AMC Engineering College, Bengaluru on 13th July 2020.
26. Participated in International Webinar on Nanomaterials and Robotics organized by Department of Physics, R. L. Science Institute (Autonomous), Belagavi on 16th June 2020.
27. Participated in the Two day Live National Level Faculty Development Program 2.0 organized by North Strom Academy held on 13th and 14th May 2020.
28. Participated in the Webinar on “NAAC RAF Criterion-II Teaching-Learning and Evaluation” jointly organized by Internal Quality Assurance Cell (IQAC) of D.R.M. Science College, A.V. Kamamma College for Womena and Bapuji B-Schools, Davanagere on 11th May 2020.
29. Participated in 3-Days Free Webinar FDP on “Digital Era of Teaching” conducted by Diksoochi, Mysuru from 11th to 13th May 2020.
30. Participated in Two-week TEQIP Online Certification course on Digital Transformation In Teaching and Learning Process approved by NPIU (National Project Implementation Unit-Swayam) and conducted by Indian Institute of Technology, Bombay from 16th to 30th March 2020.
31. Participated in Research Guides Meet-2020 sponsored by TEQIP-III, under PET Research Center on 22/01/2020 at PESCE College of Engineering, Mandya.
32. Participated in One Week Faculty Development Program under TEQIP-III on Synthesis, Characterization and Application of Advanced Materials, organized by Department of Mechanical Engineering from 27th to 31st January 2020 at PESCE College of Engineering, Mandya.
33. Participated in One Week Faculty Development Program under TEQIP-III on Processing and Application of Composite Materials (PACM) organized by Department of Industrial & Production Engineering from 30th September to 5th October 2019 at PESCE College of Engineering, Mandya.

34. Participated in expert talk on “Project Proposals for different funding agencies” on 21st September 2019 at PESCE College of Engineering, Mandya.
35. Participated in AICTE Recognized Short Term Course on Nanotechnology: Development & Challenges conducted by Applied Science Department from 27th to 31st May 2019 (One Week) at National Institution of Technical Teachers Training and Research (NITTTR), Chandigarh.
36. Participated in One Day Workshop on Research Literacy: Academic writing, E-Resources and Research Quality Indicators, conducted by P.E.T Research Foundation, PESCE College of Engineering, Mandya, on 20nd September 2018.
37. Participated in Two-week AICTE approved faculty Development Programme (FDP201X) on Pedagogy for Online and Blended Teaching-Learning Process conducted by Indian Institute of Technology, Bombay from September 14th to October 12th, 2017.
38. Participated in Two-week AICTE approved faculty Development Programme (FDP101X) on Foundation Program in ICT for Education conducted by Indian Institute of Technology, Bombay from August 3rd to September 7th, 2017.
39. Studies on External Gamma Dose rates in air around Hassan City, Karnataka. 20th National Conference on Solid State Nuclear Track Detectors and their Applications (SSNTD-20) held at Department of Physics, Vidya Vikas Institute of Engineering and Technology, Mysuru, from September 26-28, 2017 (Poster Presentation).
40. Participated in One day National Seminar on Recent Trends in Physics organized by Bharathi College, Bharathinagar, Maddur Taluk, Mandya District, Karnataka, held on 26th September 2017.
41. Participated in UGC Sponsored One day State Level Seminar on Recent Trends in Photonics organized by PES College of Science, Arts and Commerce, Mandya, held on 15th February 2017.
42. Radon Concentration in the Water Samples of Hassan District, Karnataka, India. 18th International Conference on Applied Physics (ICAP-2015) held by World Academy of Science, Engineering and Technology (WASET) - An International Scientific Research and Experimental Development Committee), at Wembley, London, United Kingdom during August 25-26, (2016) (Oral Presentation).

43. Oxidation of Amitriptyline by Bromamine-T in Acidic Buffer Medium: A kinetic and Mechanistic Approach. 18th International Conference on Applied Physics (ICAP-2015) held by World Academy of Science, Engineering and Technology (WASET) - An International Scientific Research and Experimental Development Committee), at Wembley, London, United Kingdom during August 25-26, (2016) (Oral Presentation).
44. Participated in Two days workshop on “Holistic Approach to Research” organized by P.E.T Research Foundation, PESCE College of Engineering, Mandya, on 20th & 21st of July 2016.
45. Participated in the 103rd Indian science congress held at University of Mysore, Mysuru from January 3 to 7th, 2016.
46. Participated in Two-week ISTE Short Term Training Programme on Engineering Physics conducted by Indian Institute of Technology, Bombay from 8th to 18 December 2015.
47. Participated in One day workshop on “Nuclear Energy and the Environment” organized by Department of Physics, H.K.B.K College of Engineering, Nagavara, Bangaluru on 21st September 2015.
48. Participated in One Week Faculty Development Programme on “Basic Pedagogy for Technical Teachers” organized by P.E.S. College of Engineering, Mandya from 6th to 10th January 2015.
49. Participated in One Week Faculty Development Programme on “Renewable Energy Sources and Emerging Technologies (RESET)” organized by Department of Mechanical Engineering, P.E.S. College of Engineering, Mandya from 1st to 5th September 2014.
50. Participated in One day Faculty Development Programme on “Shock Waves & Material Science” organized by Vidya Vikas Institute of Engineering and Technology, Mysore on 3rd August 2014.
51. Analysis of ²²⁶Ra and ²²²Rn concentration in natural water of Mandya District, Karnataka State, India. National Seminar on Materials science and Engineering, (NSMSE-2014) held at Department of Physics and Electronics, JSS College of Arts, Commerce and Science, Ooty Road, Mysore, March 21-22, (2014) (Poster Presentation).
52. Evaluation of natural radioactivity in soil and rock samples around Mandya district, India. National Symposium on Radiation Physics (NSRP-19) held at Radisson BLU Temple Bay, Mamallapuram, Tamil Nadu, India from December 12-14, 2012 (Poster Presentation).

53. Seasonal variations of Rn-222, Rn-220 and their decay products at different villages around Mysore, India. National Symposium on Radiation Physics (NSRP-19) to be held at Radisson BLU Temple Bay, Mamallapuram, Tamil Nadu, India from December 12-14, 2012 (Poster Presentation).
54. Study on natural radioactive elements in soil and rock samples around Mandya district, India. National Conference on Radiological Protection and safety in Nuclear Reactors and Radiation Installations (IARPCN-2012) at Mangalore University, Mangalore, Karnataka, India from March 15-17, 2012 (Poster Presentation).
55. Measurements of Radon, Thoron and their progeny concentration in the atmosphere around Mysore, India. National Conference on Radiological Protection and safety in Nuclear Reactors and Radiation Installations (IARPCN-2012) at Mangalore University, Mangalore, Karnataka, India from March 15-17, 2012 (Poster Presentation).
56. Studies on Radon, Thoron and its progeny concentration in the atmosphere and Gamma exposure rate around Mysore city. National Symposium on Radiation Physics and Nanomaterials (NSRPN-11) at Physics Department, Punjabi University, Patiala, India from February 04-05, 2011 (Poster Presentation).
57. Study of Gamma Exposure Rate in Chamaraja Nagar District, India. National Symposium on Radiation Physics and Nanomaterials (NSRPN-11) at Physics Department, Punjabi University, Patiala, India from February 04-05, 2011 (Poster Presentation).
58. Radon exhalation rate from soil and building materials of Chamaraja Nagar District, India. National Symposium on Radiation Physics and Nanomaterials (NSRPN-11) at Physics Department, Punjabi University, Patiala, India from February 04-05, 2011 (Poster Presentation).
59. A Study on natural radionuclides in ground water and radon in soil gas around Mysore city, India. 7th International Conference on High Levels of Natural Radiations at Baba Atomic Research Center, Mumbai, India from November 24-26, 2010 (Poster Presentation).
60. "Studies on variations of trace gases and particulate matters in Mysore City, India". National Conference on Aerosols & Clouds: Climate Change Perspectives (IASTA-2010) at Bose Institute Centre for Astroparticle Physics & Space Science, Darjeeling, India from March 24-26, 2010 (Poster Presentation).

61. "Variations of ion pair production rate and inhalation dose due to radon and its progeny at different locations in Mysore city, India". National Conference on Aerosols & Clouds: Climate Change Perspectives (IASTA-2010) at Bose Institute Centre for Astroparticle Physics & Space Science, Darjeeling, India from March 24-26, 2010 (Oral Presentation).
62. Actively participated and Organized Three Day workshop on Diffraction and Scattering at Department of Studies in Physics, University of Mysore during 26-28, February 2010.
63. "Studies on radioactivity in the soil, rock and water samples around Mysore city and its biological effects". National Conference on Accelerator and Low Level Radiation Safety (NCALLRS-2009) at Inter University Accelerator Centre, New Delhi, India from November 18-20, 2009 (Oral Presentation).
64. "Studies on ^{226}Ra , ^{232}Th and ^{40}K radionuclides in Soil and Rock samples around Mysore city". 18th National Symposium on Radiation Physics (NSRP-18) at Department of Physics, University College of Science, Mohanlal Sukhadia University, Udaipur, Rajasthan, India from November 19-21, 2009 (Poster Presentation).
65. "Study on ^{226}Ra and ^{222}Rn concentration in ground water samples around Mysore city, India". Sixteenth National Symposium on Solid State Nuclear Track Detectors and their Applications (SSNTD-16) at Department of Physics, Guru Nanak Dev University, Amritsar, India from October 26-28, 2009 (Oral Presentation).
66. "Studies on atmospheric electrical conductivity related to radioactivity and air pollution at three different locations in Mysore city (12°N , 76°E), India". National Space Science Symposium, Radio Astronomy Centre, National Centre for Radio Astrophysics at Udhagamandalam (Ooty) from February 26-29, 2008 (Poster Presentation).
67. Actively Participated and Organized 52nd DAE Solid State Physics Symposium held at Department of Studies in Physics, University of Mysore, Manasagangotri, Mysore, from December 27-31, 2007.
68. "Studies on Radon in Soil-Gas And Its Concentration In The Atmosphere Around Mysore City, India". National Symposium on Radiation Physics (NSRP-17) at Shah Institution of Nuclear Physics, Kolkata from November 14-16, 2007 (Poster Presentation).
69. "Studies on atmospheric electrical conductivity related to radon and its progeny concentrations at two different places in Mysore (12°N , 76°E), India". IASTA Conference,

on Emerging trends in aerosols: Technology & Applications at National Physical Laboratory, New Delhi from November 14-16, 2007 (Oral Presentation).

70. "Radioactivity in the atmosphere and gamma exposure levels around Mysore city". 15th National Symposium on SSNTDs at Gharwal University, Uttaranchal from June 21-23, 2007 (Poster Presentation).
71. Regional Seminar on "Applications of Radioisotopes and Radiation Technology" (ARRT-2006) from November 29-30, 2006 at Mangalore (Participation).
72. "Studies on variations of atmospheric electrical conductivity at Mysore". 14th National Space Science Symposium at Andhra University, Visakhapatnam from February 9-12, 2006 (Poster Presentation).

Others:

1. Participated in $\frac{1}{2}$ Day Orientation programme for Research Scholars of University of Mysore at UGC-Academic Staff College, University of Mysore on 3rd June 2005.
2. Participated in User Awareness Programme on Access to e-Resource of UGC-INFONET Digital Library Consortium at Department of Library and Information Science, University of Mysore, Mysore during 21-22, October 2008.
3. Participated in One day Acquaintance Programme of IUAC at Department of Studies in Physics, University of Mysore, Manasagangotri, Mysore, on 24 August 2010.
6. Actively participated and Organized the Science Exhibition in the Golden Jubilee Celebration-2012 of Bharathi Education Trust at BET Academy of Higher Education, Bharathinagar, Maddur Taluk, Mandya District, Karnataka from July 08-10, 2012.

T. S. SHASHIKUMAR