

FACULTY PROFILE

Dr K M Eshwarappa

Professor

Department of Studies in physics

Qualification : M.Sc., B.Ed., M.Tech (Cs&Tech), Ph.D.,

Areas of Specialization : Nuclear /Radiation Physics

Present area interest : Materials and Radiation Physics

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Vision

Teach and Train the present generation of learners with today's knowledge through research but instill the vision to see through tomorrow's problems with a chronic mindset to become lifelong learners.

Educational Qualifications

Sl. No.	Degree	Specialization/ Subjects	University	Year of Award/ Passing
1	Ph.D.	Nuclear/Radiation Physics	Mangalore University Research Guide: Prof K Siddappa	2008
2	M.Tech.	Computer Science and Technology	University of Mysore	2003
3	CSIR-UGC(NET) with JRF	Physics	CSIR, Govt. of India, New Delhi	2001
4	PG	Nuclear Physics	Kuvempu University	1997
5	UG (B.Ed.,)	Physics, Maths Methods	Kuvempu University	1995
5	UG (B.Sc.)	Physics, Chemistry, Mathematics	Kuvempu University	1994

Professional Details(Academic/Research Experience)

Sl. No.	Designation	Institution/University	UG/PG	From	To
1	Professor	Dept. of Studies in Physics, Davangere University	PG	01 st June 2022	Till date
2	Associate Professor	Dept. of Studies in Physics, Davangere University	PG	01 st June 2019	31-05.2022
3	Assistant Professor	Government First Grade College, Holenarasipura, Hassan District	PG	01 Dec 2014 to	31 st May 2019
4	Assistant Professor	Government Science College, Hassan	UG	24 th July 2006	30 th Nov 2014

5	Guest Faculty	Department of PG Studies and Research in Physics, Kuvempu University	PG	July 1997	Oct 2000
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Guidance for Doctoral Students Leading to Ph.D. award

Sl. No.	Name of the Student	Institution/University	Thesis Title	Date of Award
1	Sheela M	Bharathiar University, Coimbatore, Tamilnadu	Gamma Ray Shielding Properties of Some Composite Materials	07-03-2024
2	Kavitha C M	Davangere University, Davangere	Radiation effects on Some Polymer Nanocomposites	12-08-2024
3	Shankar S R	Bharathiar University, Coimbatore, Tamilnadu	Synthesis, Characterization and Structural Investigation of Novel Nonlinear Optical Materials	05-12-2024

Achievements/Awards / Abroad visit / Professional bodies Membership

InRes C V Raman Prize 2022, Institute of Researchers, internationally recognized and accredited by MSME - Ministry of Micro, Small and Medium Enterprises, Govt. of India and MCA - Ministry of Corporate Affairs, Govt. of India.

Best Research Publication Award-2021, Davangere University, Davangere

Best Paper Award at International Conference on "Recent Advances in Physics for interdisciplinary developments (ICRAPID-2014) " held at Satyabhama University, Chennai during Jan 2014.

CSIR-UGC (NET) Junior research fellow (JRF), New Delhi, Govt of India, June 2002.

CSIR-UGC (NET) Senior research fellow (SRF), New Delhi Govt of India, June 2004.

Designed, fabricated and characterized the Microtron Based Photoneutron Source and neutron radiography assembly installed at Microtron Centre, Mangalore University in collaboration with Bhabha Atomic Research Centre (BARC, Mumbai), India which is first of its kind in the country. It was formerly commissioned by former Atomic energy commissioner Dr M R Srinivasan.

Best Paper Award in National Seminar on "Quality Assurance and Quality Sustenance in Higher education Institutions: Challenges and Issues" organized by Government science College, Hassan, 1st March 2016.

Life Member , Indian Association of Physics Teachers(IAPT), Member Ship No. L7272

Life Member, Indian Society for Radiation Physics, (ISRP), Life Membership No.: LM1084,

Life Member, Nuclear Track Society of India(NTSI), Life Membership No.: 434

Life Member, Indian Association of Radiation Protection, Life Membership No. LM-1511

Life member, Karnataka Physics Association, Indian Academy PU college campus, Bangalore.

Areas of Research Interest:

1. Nanofluids and nano composites for industrial and nuclear radiation shielding applications.
2. Nanomaterials for neutron/gamma detection.
3. Gamma ray backscattering studies for nondestructive evaluation/testing.
4. Neutron production studies using particle accelerators.

Academic/Administrative responsibilities:	
	Editorial Board Member of “Nuclear Science” Journal, Science Publishing Group, USA
	Reviewer for Journal Scientific Reports of Springer Nature
	Reviewer for Journal ChemSelect, Wiley
	Reviewer for Journal Discover Materials of Springer Nature
	Reviewer for Journal Nuclear Energy and Technology of Elsevier
	Reviewer for Elsevier Publication Journal “Annals of Nuclear Energy”.
	Reviewer for Springer Publication Journal “Nuclear Science and Techniques” from 2017
	Reviewer for Journal of Emerging Technology and Innovative Research (An International Peer Reviewed Journal).
	BOS/BOE Member
	Member, BOS(PG) Physics, Davangere University, Davangere
	Member, BOS(PG) Physics, Kuvempu University, from 2024 to till date
	Member, BOS(UG&PG) Physics, Reva University, Bangalore, since 2019
	Member, BOS(PG), JSS College, Ooty Road Mysore 2020-2022 till date
	Member, BOS(PG), KLE Socitey’s R.L. Science Institute (Autonomous), Belagavi. 2024 to till date
	Member, BOS(UG&PG) Physics, Bangalore City University, Bangalore
	BOS Member at Government First Grade College for Women (Autonomous), Mandya during 2016
	Member, BOS, Government Science College (Autonomous), Hassan in 2016 to 2019
	Chairman (BOE) PG Physics, Davangere University, Davangere, 2020-21, 2022-23, 2024-25
	Member, BOE (PG), DOS in Physics, University of Mysore 2022-23
	Member, BOE (PG), DOS in Physics, Kuvempu University 2022-23
	Member, BOE (PG), DOS in Physics, Gulbarga University 2022-23
	Member, BOE (PG), DOS in Physics, Mangalore University 2022-23
	Member, BOE (PG), Department of Physics, VSKUB, Ballary 2022-23.
	BOE(UG&PG) member at Reva University, Bangalore in 2017 to till date
	BOE (PG), Bangalore City University, Bangalore 2019-till date
	BOE(UG&PG) member at Reva University, Bangalore in 2017 to till date
	BOE Member, KLE Socitey’s R.L. Science Institute (Autonomous), Belagavi. 2020-21
	BOE (PG) Member at University of Mysore University in 2019
	Worked as Head of the PG department of Physics at Govt. First Grade College, Holenarasipura from 2014 to 2019.
	Worked as RUSA District coordinator for Hassan District. 2013 to 2015
	Worked as RUSA coordinator at Government Science College (Autonomous), Hassan, 2012 to 2014.
	Worked as Member IQAC, Govt. Science College, Hassan 2011 and 2012
	Worked as coordinator for Department of Computer Science, Govt. Science College, Hassan for the period of 6 months during 2012.

Research Projects:					
Sl. No.	Title of the Project	Funding Agency	Project Budget	Period	Status

1	"Backscatter gamma scanning system for online inspection of industrial process columns".	VGST, Govt. of Karnataka, under Research Fund for Talented Teacher (RFTT)	5.0Lakh	2017-18	Completed
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Visiting Faculty

Medical Physics Division, Mangalore University, Mangalore, 2019, 2020.

Research Publications:

a) International Journals

1.	Saideep Shirish Bhat, Shivakumar Jagadish Shetty, M.P. Shilpa, Sachin Shet, K.M. Eshwarappa , S.C. Gurumurthy, Neutron irradiation induced transmuted Ga-doping of ZnO thin films: Structural and opto-electronic investigations, <i>Ceramics International</i> , 2024, ISSN 0272-8842, https://doi.org/10.1016/j.ceramint.2024.11.252 .
2.	Ultraviolet Radiation Driven Multifunctional Polyvinyl Alcohol Based Hybrid Polymer Nanocomposites, C. M. Kavitha, K. M. Eshwarappa* , Shivakumar Jagadish Shetty, S. C. Gurumurthy, I. Mallikarjuna, <i>Journal of Applied polymer Science</i> , First published: 25 November 2024 https://doi.org/10.1002/app.56529
3.	Glutaraldehyde (GA) Crosslinked PVA/GO-Ag Polymer Nanocomposite for Optoelectronic and Optomechanical Applications, C M Kavitha, K.M. Eshwarappa* , S C Gurumurthy, Srivathsava Surabhi, Jong-Ryul Jeong, Daniela V. Morales, <i>Journal of Alloys and Compounds</i> , Available online 30 September 2024, 176802, https://doi.org/10.1016/j.jallcom.2024.176802 , IF: 5.8, Q1
4.	The Functional Moieties Impact on Optical, Thermal, and Nonlinear Properties of Chalcone Derivatives. A Comprehensive Study on FT2MP, Shankara S.R., K.M. Eshwarappa* , Shashi Kumar Kumara Swamy, Deekshitha K, Shree Vidya, Jayarama A, Richard Pinto, <i>Optical Materials</i> , Available online 12 September 2024, 116083, https://doi.org/10.1016/j.optmat.2024.116083 IF: 3.8, SJR : Q2
5.	Kavitha, C.M., Eshwarappa, K.M.* , Gurumurthy, S.C. et al. Development of Graded Thermal Effusivity Polymer Nanocomposite for Heat Management System. <i>Arab J Sci Eng</i> (2024). https://doi.org/10.1007/s13369-024-09467-8 . IF: 2.9, SJR : Q1
6.	C. M. Kavitha, K. M. Eshwarappa* , M. P. Shilpa, Shivakumar Jagadish Shetty, S. C. Gurumurthy, K. U. Kiran, Sachin Shet, Hybrid polymer nanocomposites with tailored band gaps and UV absorption for advanced applications in optoelectronics and UV protection. <i>Polymers for Advanced Technologies</i> , 2024, https://doi.org/10.1002/pat.6515 . IF: 3.1, SJR : Q2
7.	Kavitha, C.M., Eshwarappa, K.M.* , Shetty, S.J. et al. Modification of thermal and electrical characteristics of hybrid polymer nanocomposites through gamma irradiation for advanced applications. <i>Discover Nano</i> 19, 34 (2024). https://doi.org/10.1186/s11671-024-03972-3 . IF: 5.5, SJR : Q1
8.	S.R. Shankara, Vinayakprasanna N Hegde, V.V. Manju, K.M. Eshwarappa* , K.B. Deeksha, B.C. Hemaraju, Crystal growth and characterization of glycine chlorzoxazone nonlinear optical crystal for energy storage capacitor applications, Chemical Physics Impact , Volume 8, 2024, 100556, ISSN 2667-0224, https://doi.org/10.1016/j.chphi.2024.100556 , ISSN - 2191-4281.

9.	Kavitha, C.M., Eshwarappa, K.M.* , Gurumurthy, S.C. et al. Gamma Radiation-Induced Modification in Mechanical Properties of Hybrid PVA (Go/Ag)-Based Polymer Nanocomposites. Arab J Sci Eng (2024). https://doi.org/10.1007/s13369-024-08964-0 . IF: 2.9, SJR : Q1
10.	C.M. Kavitha, K.M. Eshwarappa* , M.P. Shilpa, Shivakumar Jagadish Shetty, Surabhi Srivathsava, A.P. Shashidhar, N. Karunakara, S.C. Gurumurthy, Ganesh Sanjeev, Tuning the Optical and Electrical Properties by Gamma Irradiation of Silver Nanoparticles Decorated Graphene Oxide on Glutaraldehyde Crosslinked Polyvinyl Alcohol Matrix, Materials Research Bulletin , 2024, 112685, ISSN 0025-5408, https://doi.org/10.1016/j.materresbull.2024.112685 . IF: 5.3, SJR : Q1
11.	S.R. Shankara, K.M. Eshwarappa* , Jayarama A, Shriganesh Prabhu, Richard Pinto, Enhancing nonlinear optical responses via Methoxy Positional Isomerism in Chalcone-Based Materials, Materials Chemistry and Physics , Volume 312,2024,128662, ISSN 0254-0584, https://doi.org/10.1016/j.matchemphys.2023.128662 . IF: 4.3, SJR : Q1
12.	Decentralized core-shell Au/Ag bimetallic nanostructures prepared via green approach for catalytic and antimicrobial applications. M.P. Shilpa, Vignesh Shetty , Srivathsava Surabhi , Jong-Ryul Jeong , D.V. Morales , Mamatha Ballal , K.M. Eshwarappa , Ravikirana , M.S. Murari , Roopa Nayak , S.C. Gurumurthy. Materials Science and Engineering: B Volume 298, December 2023, 116893. https://doi.org/10.1016/j.mseb.2023.116893
13.	A combined experimental and computational study of flexible polyvinyl alcohol (PVA)/graphene oxide (GO) nanocomposite films for superior UV shielding with improved mechanical properties, Kavitha Cheelangi Mruthyunjayappa, Shashidhar Anivala Paramashivaiah, Eshwarappa Kunabevu Mallikarjunappa* , Shilpa Molakkalu Padre, SC Gurumurthy, Srivathsava Surabhi, Jong-Ryul Jeong, Daniela Valentina Morales Montecinos, MS Murari, Materials Today Communications , 35 (2023) 105662 https://doi.org/10.1016/j.mtcomm.2023.105662
14.	Transient thermal investigation of a fully wet porous convective–radiative rough cylindrical pin fin, B. J. Gireesha, M. L. Keerthi, K. M. Eshwarappa , Heat Transfer, Wiley, 2023/1/9.
15.	Mono-and Bimetallic Nanoparticles for Catalytic Degradation of Hazardous Organic Dyes and Antibacterial Applications, Shilpa Molakkalu Padre, S Kiruthika, Shridhar Mundinamani, Ravikirana, Srivathsava Surabhi, Jong-Ryul Jeong, Kunabevu Mallikarjunappa Eshwarappa , Mudiyanu Subrahmanya Murari, Vignesh Shetty, Mamatha Ballal, Gurumurthy SC, ACS omega, American Chemical Society, 7 39 (2022) 35023-35034.
16.	Analysis of shape dependency of thermal conductivity of silver-based nanofluids, Smita Mahadevappa Nyamgoudar, Vasavi Prasuna Silaparasetti, MP Shilpa, KS Pavithra, Shridhar Mundinamani, K M Eshwarappa , Srivathsava Surabhi, Koduri Ramam, A Ganesha, SC Gurumurthy, Journal of Thermal Analysis and Calorimetry, 147, 24 (2022), 14031-14038.
17.	Flexible, large-area, multi-layered graphene/cellulose composite for dye filtration applications, Vishwanatha H.S., Shilpa M.P.bcGurumurthyS.C., Murali Geddad, Koduri Ramam, K.M.Eshwarappa, RaviKirana, Nirankar Nath Mishra, Shridhar Mundinamani, Materials today Communications , Volume 30, March 2022, 103134
18.	Heat transfer analysis of longitudinal fins of trapezoidal and dovetail profile on an inclined surface, B J Gireesha, M L Keerthi and K M Eshwarappa , Physica Scripta, Volume 96, Number 12 (2021).

19.	Compressed Flow of Hybridized Nanofluid Entwined Between Two Rotating Plates Exposed to Radiation, Almeida, F. ; Venkatesh, P. ; Gireesha, B. J. ; Nagaraja, B. ; Eshwarappa, K. M. ; Journal of Nanofluids, Volume 10, Number 2, June 2021, pp. 186-199(14).
20.	Third Grade Fluid Flow in a Microchannel Crammed with Permeable Media Liable to Non-linear Thermal Radiation, A. Felicita, P. Venkatesh, B. J. Gireesha, D. O. Soumya & K. M. Eshwarappa , International Journal of Ambient Energy, 2021, DOI: 10.1080/01430750.2021.1965020
21.	Studies on Effects of Fe ₃ O ₄ -PbO Combinations in Peroxide Vulcanization of EPDM and Shielding 59.54 keV Gamma Rays, Vinay Kamat, Kiran K U, Eshwarappa K M , K Swaroop, H M Somashekarappa, Radiation Effects & Defects in Solids, 2021, Vol. 176, Nos. 7–8, 690–703, https://doi.org/10.1080/10420150.2021.1935942 .
22.	Design, fabrication and characterization of neutron irradiation facility using accelerator-based photoneutron source, Eshwarappa K M et.al. , <i>Progress in Nuclear Energy</i> , 2021, 103826
23.	Preparation and characterization of bismuth-filled high-density polyethylene composites for gamma-ray shielding. Sheela M, Vinayak Anand Kamat, Kiran K U, Eshwarappa K M , Radiation Protection and Environment Volume 42 Issue 4 (2020) 180-186.
24.	Nuclear radiation shielding properties of bismuth filled high-density polyethylene composites, Sheela M, Vinayak Anand Kamat, Kiran K U, Eshwarappa K M , Journal of Rajasthan Academy of Physical Sciences, Vol.18, No.3&4, July-December, 2019, 183-192
25.	Mechanical and electrical properties of Bismuth filled high density polyethylene composites. Sheela M, Vinayak Amand Kamat, Eshwarappa K M , IJARIE, Vol 5 Issue 3 (2019) 1176-1181.
26.	Albedo factors of 123, 320, 511, 662 and 1115 keV gamma photons in Carbon, Aluminium, Iron and Copper, Kiran K U, Ravindra Swami, Eshwarappa K M , K, Somashekarappa H M, European Physical Journal Plus 131(4) · April 2016.
27.	Experimental response function of a 3 inch by 3 NaI (Tl) detector by inverse matrix method and effective atomic number of composite materials by gamma backscattering technique. Kiran K U, Ravindra Swami, Eshwarappa K M , K, Somashekarappa H M, Applied Radiation and Isotopes, Volume 111, May 2016, Pages 56–65
28.	Melting heat transfer in boundary layer stagnation-point flow of nanofluid toward a stretching sheet with induced magnetic field. B.J. Gireesha , B. Mahanthesh, I.S. Shivakumara, K.M. Eshwarappa . Engineering Science and Technology, an International Journal, Volume 19, Issue 1, March 2016, Pages 313–321.
29.	Angular dependence of multiple scattered photons and saturation thickness for certain elements by gamma scattering method. Kiran K U, Ravindra Swami, Eshwarappa K M , K, Somashekarappa H M , Radiation Physics and Chemistry 119 (2016) 116–124
30.	Experimental and simulated study of detector collimation for a portable 3 inch by 3 inch NaI(Tl) detector system for in-situ measurements. Kiran K U, Ravindra Swami, Eshwarappa K M , K, Somashekarappa H M, Journal of Radiation Research and Applied Sciences, Volume 8, Issue 4, October 2015, Pages 597–605.
31.	Effective atomic number of selected construction materials using gamma backscattering technique. Kiran K U, Ravindra Swami, Eshwarappa K M , (Corresponding Author)., Somashekarappa H M, Annals of Nuclear Energy , Volume 85, November 2015, Pages 1077–1084
32.	Experimental and simulated validation of the energy dependence of saturation thickness of multiple scattered gamma rays. Kunabevu Mallikarjunappa Eshwarappa , Kiggal

	Udayashankar Kiran, <u>Kalladka Ravindraswami</u> , Hiriya Mallaiah Somashekarappa, Central European Journal of Physics 01/2014; 12(11):792-798.
33.	Nondestructive evaluation of selected polymers by multiple scattering of 662 keV gamma rays. Ravindra Swami K, Kiran K U, , Eshwarappa K M , Somashekarappa H M, J Radio anal Nucl Chem (2014) 300:997–1003.
34.	Angular dependence of 662 keV multiple backscattered gamma photons in Aluminium. Ravindra Swami K, Kiran K U, , Eshwarappa K M , Somashekarappa H M, International Journal of Scientific & Engineering Research, Vol 5 Issue 3 (2014) 308-315.
35.	Effective atomic number of composite materials by Compton scattering - nondestructive evaluation method. Kiran K U, Ravindra Swami, Eshwarappa K M , K, Somashekarappa H M, International Journal of Scientific & Engineering Research, Vol 5 Issue 3 (2014) 316-325.
36.	Experimental Observation of Energy Dependence of Saturation Thickness of Gamma Photons in Iron. Eshwarappa K M , Kiran K U, Ravindra Swami K, Somashekarappa H M, International Journal of Scientific & Engineering Research, Vol 5 Issue 3 (2014) 326-328.
37.	Experimental evaluation of dMCA based NaI (TI) detector system for studying multiple Compton backscattering of gamma rays using iron. Kiran K U, Ravindra Swami K, Eshwarappa K M , Somashekarappa H M, <i>Int J of Interdisci Res and Revs. IJIRR</i> , 2013, Vol.01, Issue 07, Pp 20-27.
38.	An investigation of energy dependence on saturation thickness for 59.54, 123, 279, 360, 511, 662, 1115 and 1250 keV gamma photons in carbon and aluminium”, K.U.Kiran a, K.Ravindraswami, K.M.Eshwarappa , H.M.Somashekarappa, Radiation Physics and Chemistry 97(2014)107–112.
39.	Experimental investigation of saturation thickness of multiply backscattered gamma photons in metals, glass and granites”, K Ravindraswami, K U Kiran, K M Eshwarappa , H M Somashekarappa, International Journal of Science Research, Issue 2 255-261(2013).
40.	Experimental observations of Z-dependence of saturation thickness of 662 keV gamma rays in metals and glasses. K Ravindraswami, K U Kiran, K M Eshwarappa , H M Somashekarappa, Indian J Phys, vol. 87, issue 11, (2013) pp. 1141-1147.
41.	Similarity solutions for boundary layer Flow of a dusty fluid through a porous Medium over a stretching surface with internal heat generation/absorption. S.Manjunatha, B.J.Gireesha , K.M. Eshwarappa , C.S.Bagewadi, <i>Journal of Porous media</i> , Volume 16, 2013 Issue 6 501-514.
42.	Photoneutron spectrum estimation and its experimental validation using Neutron REM detector. K.M. Eshwarappa et al., <i>Annals of Nuclear Energy</i> 57 (2013) 130-133.
43.	Comparison of photoneutron yield from beryllium target irradiated by variable energy microtron based bremsstrahlung radiation. K.M. Eshwarappa et al., <i>Annals of Nuclear Energy</i> 34(2007)896-901.
44.	Estimation of Neutron Yield from Beryllium Irradiated by Microtron Based Bremsstrahlung Radiation. K. M. Eshwarappa et al. <i>Nuclear instrumentation and methods in physics research section A (NIMA)</i> , 540 2-3 (2005) 412-418.
b) National Journals	
c) International Conference	

1.	Neutron shielding calculations and measurements for microtron based photoneutron source. K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014). 936-937.
2.	Experimental verification of angular dependence of 0.662 MeV scattered gamma photons in iron DAE symposium, Banaras Hindu University; 12/2014. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 526-527, K M Eshwarappa , K U Kiran, K Ravindraswami, and H M Somashekarappa.
3.	Effective atomic number of granite by gamma backscattering method.Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014) 412-413, K U Kiran,K Ravindraswami, K M Eshwarappa , and H M Somashekarappa
4.	Effect of detector collimation on the measured multiple scattered gamma-rays in 3" × 3" NaI (TI) detector, Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014), 866-867, K Ravindraswami,K U Kiran, K M Eshwarappa , and H M Somashekarappa
5.	"Photoneutron spectrum measurement using threshold activation detectors" K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar,Proceedings of DAE Symposium on Nuclear Physics 2008(SNP-2008), 717-718
6.	"Photoneutron Production and Irradiation Studies Using Microtron Facility" K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Godwal B K, Proceedings of DAE Symposium on Nuclear Physics 2007(SNP-2007), 686-687
7.	"Optimization of photoneutron yield from microtron based photoneutron source", K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Godwal B K, Proceedings of the DAE-BRNS Symp on Nucl. Phys. (2006) 612-613.
8.	Neutron Dose Estimation of Microtron Based Photoneutron Source, K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Godwal B K, Proceedings of the Indian Particle Accelerator conference(InPAC 2006) 383-384.
9.	"Measurement of Photoneutron yield from microtron based photoneutron source using Silver Wrapped GM counter", K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Godwal B KProceedings of DAE-BRNS Indian particle accelerator conference (InPAC 2005) 543-544
10.	Design Simulation of Microtron Based Photoneutron Source", K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Godwal B K , Proceedings of International Scientific-Technical Conference on "Portable Neutron Generators and Technologies on their Basis" October 18-22, 2004 VNIIA, Moscow.
d) National Conference	
1.	Gamma Shielding Properties of Lead Borate Glasses containing Nanometallic Lead, M Sheela, Kiran K U, K M Eshwarappa , Proceedings of National seminar on Recent Advances in Nanoscience & Nanotechnology, ISBN:978-1539580201, 2016 Page 8-9.
2.	"Microtron Based Photoneutron source for R&D", K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Godwal B K , ProceedingsBARC Golden Jubilee DAE-BRNS National Workshop on "Nuclear Data for Advanced Nuclear Systems, Nuclear Data Bases and Applications (NWND-2006).
3.	Characterization of Microtron Based Neutron Source, K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar, Godwal B K, Proceedings of Golden-Jubilee DAE-BRNS Theme Meeting on "Use of Neutron Sources for Experiments Related to Nuclear technology and Fuel Cycles, 2006, 55-58.

4.	Design and Characterization of Neutron Beam Collimator”, K M Eshwarappa , S.Ganesh, K.Siddappa, Amar Sinha, Yogesh Kashyap, P.S.Sarkar,Seventeenth National Symposium on Radiation Physics (NSRP-17) November 14-16, 2007 Saha Institute of Nuclear Physics, Kolkata.
Conference/Workshops/Trainings attended/organized:	
<i>International/National Conferences/Seminar/Short term course/workshop organized:</i>	
<ol style="list-style-type: none"> 1. 2. "Phytosynthesis of bimetallic silver-copper nanoparticle by using nyctanthes arbor-tristis for catalytic applications" Two day International Conference on “Advances in Smart Nano Materials organized by Department of Physics, Govt. City College(A), Hyderabad on 24th & 25th March 2022. 3. Hands-on training workshop on “Sensor Technology” during 14th-18th November, 2022. Organized by Defence Institute of Advanced Technology(DIAT) and Pune Knowledge Cluster(PKC). 4. Organized one day Webinar on Particle Detectors for Space applications, 19-07-2021. 5. Organized one day Webinar on Flexible OLEDs-The future of Lighting and Display Technology 20-06-2020. 6. Organized one day Webinar on Biological Bases of Radiation Protection, held on 17-06-2020. 7. Organized one day Webinar on Super Capacitors, Held on 16-06-2020. 8. Organized one day Webinar on Biological Effects of ionizing Radiation, held on 12-06-2020. 9. Organized one day workshop for college teachers on “Frontiers in Physical Sciences”, sponsored by KSTEPS and VGST, Government of Karnataka, During 03-02-2020. 10. Organizing Secretary for National Seminar on Recent Trends in Nano Science and Technology held at Government Science College, Hassan, 2016. 11. Course Designed and worked as Convener for 15 days Short term course on “Scientific Computing” for B.Sc. and M.Sc. Students Using MATHLAB, MATHEMATICA AND ORIGIN. Organized by Department of Physics, Government Science College Hassan. Sponsored by UGC equal opportunity cell of GSC, Hassan. 12. Organizing Committee member for state level seminar on “Popularizing basic Science” at Government Science College, Hassan, During December 8-9 2008. 	
Invited Talks	
<ol style="list-style-type: none"> 1. Key Note address: Materials science and its recent applications, JSS college College of Arts, science and commerce, Ooty Road, Mysuru, 09-02-2023 2. Radiation Shielding materials and their applications, 29-09-2021, National Conference on Recent Advances in Physics for interdisciplinary Development (RAPID-2021) held at SJVP College, Harihar, Karnataka. 3. Recent Developments in Radiation Shielding Materials, State Level Webinar, JSS College, Ooty Road, Mysuru, 14-09-2021. 4. Radiation for Material Research, National Webinar, HDD, GFC, Padavalahippe, Hassan District, 16th July, 2021. 5. Recent Developments in Radiation Science and Technology, One-week Virtual Faculty Development Programme on “Recent Advances in Science and Technology-2020, Dept. of Physics, DONBOSCO Institute of Technology, 17th August 2020. 	

6. Recent Developments in Radiation Technology, Three Day National Level FDP/SDP on “Recent Developments in Material Science and Radiation Technology, VVCE, Mysore, 8-10 July 2020.
7. Radiation in Service of Mankind, National Webinar, IQAC and Department of Physics, JSS College for Women (Autonomous), Saraswathipuram, Mysuru-09 on 23rd July 2020.
8. Advanced applications of Raman Effect, Science Day Celebration, IQAC, SJM college of arts, science, and commerce, Chitradurga on 03/03/2020.
9. Women in Science and Advanced Applications of Raman Effect, Science Day -2020, IQAC, Govt. First Grade College, Channagiri On 11/03/2020
10. Radiation Science and Technology and materials, Three days National Webinar on Physics, Date: 20-07-2020, Bapuji Institute of Engineering and Technology, Davangere
11. Physical Significance of some of the terms used in Fluid Mechanics, Four days National Webinar on “Fluid Mechanics and its Applications in Engineering Science”, PES Institute of Technology & Management DEPARTMENT OF MATHEMATICS, Shimogga. held during 24th-27th June 2020.
12. Electrodynamics of Super conductors, Special Lecture Programme, IQAC, Department of Physics, PES college of Arts, Science and Commerce, Mandya, During 01-07-2021
13. Monte Carlo Methods of Computation, National conference on Recent trends in applied sciences and computing engineering (NCRTASCE-2019), Department of Mathematics, Jawaharlal Nehru National college of engineering, Shivamogga, Karnataka During 26th and 27th July-2019.
14. Nuclear Techniques for cultural research, National Seminar on Indian Coin Heritage, Govt. First College, Holenarasipura, During 09-02-2015.
15. Characterization of Microtron Based Neutron Source, Golden-Jubilee DAE-BRNS Theme Meeting on “Use of Neutron Sources for Experiments Related to Nuclear technology and Fuel Cycles, BARC and North Eastern Hill University, Shilong, India.
16. Classical Mechanics, National Eligibility Test (NET) workshop M.Sc. Mathematics students during 16-05-2010, Department of Mathematics Kuvempu University.
17. Laser Diodes, “Curriculum development for elective paper-Photonics” 26-02-2011, Forum of Physics and Electronics Teachers, University of Mysore.
18. Curve fitting and Data Analysis using origin, Short term course on Scientific Computing August 2012, Department of Physics, Government Science College Hassan. Sponsored by UGC equal opportunity cell of GSC, Hassan.
19. Resource person for more than 15 content enrichment workshop programmes for High school physics teachers organized by DIET, Hassan and Pilikula Regional Science center, Mangalore at various taluk centers of Hassan district and Chikkamagalur district.
20. Delivered more than 15 special lectures at various degree and PU colleges.

Workshops/Seminars/Symposium Attended:

1. Research Seminar Series organized by TEQIP-III at MNIT Jaipur and IEEE student branch of MNIT Jaipur in association with IEEE Rajasthan Subsection which took place on 03 October, 2020 on the topic “Software tools and Techniques used in the field of Experimental High Energy Physics”
2. International Virtual Conference on “Photovoltaics and Materials Science” Organized by Centre for Crystal Growth, Vellore Institute of Technology, Vellore, held on 23rd June, 2020.
3. International Symposium on Advanced Research in Physics-2020, Organized by Bangalore University, during 27-31 July 2020.
4. International Webinar on Integration of Graphene and Semiconductors for optoelectronic applications, Organized by Department of Physics, Don Bosco Institute of Technology, Mysore Road, Bangalore held during 12th Oct 2020.

5. Webinar on Physics of Nanomaterials : Synthesis, characterization and Applications held during 14th May 2021. Organized by Reva University, Bangalore.
6. Workshop on NAAC Criteria held from 03-02-2021 to 10-02-2021 Conducted by IQAC, Davangere University, Davangere.
7. Three-day National convention NEP 2020 held from 21st to 23rd Sept 2020, organized by IQAC, Davangere University, Davangere.
8. ONE DAY WORKSHOP ON "Role of Digital Libraries in Academic Research" held on 30th May 2020 at Central Library, Davangere University, Davangere.
9. Workshop on NAAC CRITERIA One week 03-02-2021, To 10-02-2021 IQAC, Davangere University, Davangere.
10. Faculty Development Program-2020, One Week 06-01-2020, to 13-01-2020 IQAC, Davangere University, Davangere.
11. Theme meeting/workshop on X-ray micro-imaging using synchrotron to be held at RRCAT, Indore during 14-16 September, 2017. Organized by BARC and RCAT.
12. DAE Workshop on Digitization of nuclear data (EXFOR)" Conducted Jointly Conducted Jointly by International Atomic Energy Agency (IAEA), DAE Govt. of India, and Rajasthan University, During Nov 3-7 2009.
13. DAE-BRNS theme meeting cum workshop on Nuclear reaction code EMIPRE CODE. Held at University of Calicut, during November 2014.
14. DAE-BRNS National workshop on "Nuclear Data for Reactor Technology and Fuel Cycle", held during March 7-10, 2005 at BARC, Mumbai.
15. Nuclear Physics workshop" jointly organized by Sri Satya Sai Institute of Higher Learning and Nuclear Science Centre, New Delhi held at Prasanthinilayam during 22-23 July 2004.
16. National workshop on "Irradiation of Food for Quality Upgradation" held at Mangalore University during Sept. 29 2003.
17. Workshop Institutional Preparation for NAAC accreditation and Reaccreditation, Organized by IQAC, Government Science College, Hassan during 07-08-2014.
18. Workshop on "Effective Teaching of Physics in class rooms" held during 26th July 2008 at Bharathi College, Bharathinagar, Mandya.
19. National conference on "Document Analysis and Recognition (NCDAR)" held at Department of computer Science and Engineering PES College, Mandya, Karnataka during 14-15 July 2001.
20. National symposium on "One Hundred Years of Electron Discovery (NSED-97)" held at Dept. of PG Studies and Research in Physics, Kuvempu University during 29-30 December 1997.
21. National seminar on "Impact of Discovery of Radioactivity on Modern Society (IDRMS)" held at Dept. of PG Studies and Research in Physics, Kuvempu University during 4-5 November 1996.
22. Two day State level seminar on "Popularizing the Basic Science courses" Organized Government Science College, Hassan, During December 8-9 2008.

Training Programme :

1. AICTE Sponsored Short Term Training Programme (STTP) on "Emerging trends in nanomaterials for Electronic and optoelectronic devices" (SERIES I: Synthesis and Functionalisation of Nanomaterials), One Week 10-05-2021 to 15-05-2021, Swarnanadhra college of Engineering and Technology, KAKINADA
2. AICTE Sponsored Short Term Training Programme (STTP) on "Emerging trends in nanomaterials for Electronic and optoelectronic devices" (SERIES II: Fabrication and Characterization of nanoelectronics devices), One Week 17-05-2021 to 22-05-2021, Swarnanadhra college of Engineering and Technology, KAKINADA.
3. AICTE Sponsored Short Term Training Programme (STTP) on "Emerging trends in nanomaterials for Electronic and optoelectronic devices" (SERIES III: Fabrication and Characterization of optoelectronic and Photonic Devices) One Week 24-05-2021 to 29-05-2021, Swarnanadhra college of Engineering and Technology, KAKINADA.

4. Short term course on MOOCs during June 2018 conducted by HRDC, Pondicherry University.
5. One week Teacher empowerment training for assistant professors, at JSS Mahavidyalaya Suttur organized by Govt. Of Karnataka, Karnataka Jnana Ayoga, during Mar 26th-01st April 2012.
6. Administrative Training-Management of First Grade Colleges for Principals and lecturers, 10-15 March 2008, Administrative Training Institute(ATI), Mysore
7. Global Skills Enhancement Programme, during 16th June to 28th June 2008, at INFOSYS BPO leadership Institute, Mysore.
8. Neutron measurement and calculations for accelerator based neutron source development at Laser and Neutron Physics (formerly HPPD), BARC, Mumbai, during Dec 21st -28th, 2005.
9. UGC Sponsored Orientation Programme during 12 Nov -8th Dec 2007, at ASC, Bangalore University.
10. Training on neutron spectrum unfolding using various computer codes, at VECC, Kolkatta, during Jan 14-23rd 2004
11. Training on Carlo calculations and accelerator based neutron source development at Laser and Neutron Physics (formerly HPPD), BARC, Mumbai, during Dec 3rd -31st 2003.

Refresher courses attended

1. UGC Sponsored Refresher Course at ASC, University of Mysore, during 01-21 March 2010
2. Refresher course on Experimental Physics, Indian Academy of Science, Bangalore, during 15-31 Dec 2010.
3. Refresher course on Quantum Mechanics, Indian Academy of Science, Bangalore and JSS Mahavidyalaya, Mysore, during 02-14 Dec 2013.
4. UGC sponsored Refresher course in Physics, at Dept of Physics and HRDC, Savitribhai Phule Pune University, Pune.

Personal Details

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