




# P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)



## Faculty Profile

### General

Name	Dr. Shivalinge Gowda	
Designation,	Professor & Head	
Department & Affiliated Institution	Department of Physics, P.E.S College of Engineering, Mandya – 571 401	
Research Area	Radiation Physics – Interaction of Photons with matter	
Contact Number	+91 9449679429	
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### Academic Profile

#### Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	Department of Studies in Physics	University of Mysore, Mysuru	2006	-	-
M. Sc.,	Department of Studies in Physics	University of Mysore, Mysuru	1988	55	II - Class
B. Sc.,	Bharathi College, Bharathinagara, Mandya District	University of Mysore, Mysuru	1986	58	II - Class

#### Professional Experience

Organization & Department	Designation	Period	Total Experience
Bharathi College, Bharathinagara, Mandya District	Lecturer (Stop-gap), Lecturer, Senior Lecturer, Selection Grade Lecturer	08-09-1988 to 29/02/2008	20 Years
P.E.S. College of Engineering, Mandya	Assistant Professor, Professor (CAS)	01-03-2008 to Till date	12 year 6 months

#### Reports on Academic and Research Activities

##### Academic Activities

Course/Topic Taught	Teaching Records (Details of courses taught)
B.E./M.Tech/MCA/MBA	<b>B.E.: Engineering Physics : Unit – I : Modern Physics &amp; Quantum Mechanics, Unit – IV : Electrical conductivity in metals &amp; Semiconductors, Unit – V : Acoustics of Buildings</b> <b>B.E.: Practicals: 12 Experiments were completed in each semester in different branches</b> <b>B.E.: Open Elective: Unit – IV : Detectors and Unit – V : Theory of relativity.</b>

##### Research Guidance (Candidates Awarded / Pursuing Ph. D / M.Sc., Engg./ M. Phil)

Degree	Ph. D.	M.Sc., Engg.	M. Phil
Awarded	Nil	Nil	09
Pursuing	Nil	Nil	Nil

##### Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Title	Project Funded by	Grants Sanctioned	Grants Received
Sponsored Research	Nokia University relations, Finland	--	Rs 4.18 lakh

##### Research Publications in Refereed Journals and Conferences/Symposia

No. of Publications in	National	International
Journals	01	07
Conferences/Symposia	08	03

##### Other Important Responsibilities held in the College

1. Head of the department of Physics	3. BoS and BoE Chairman
2. Coordinator for Autonomous Examination Section	4. PESCE – IQAC coordinator

## LIST OF PUBLICATIONS

### **I. List of Papers published in National & International Journals:**

**Ph.D. Thesis Title** – “The Mass Attenuation Coefficients, Effective atomic cross sections, Effective Atomic Numbers and Electron densities of some Halides”

1. T S Shashikumar, C Ningappa, **Shivalinge Gowda** and Chandrashekar (2020). Studies on Gamma Dose Rates in Indoor and Outdoor Environment of Hassan city, Karnataka - Radiation Protection Dosimetry, 1-6.
2. T S Shashikumar, S Revanna, M N Ramachandra, G V Ashok, C Ningappa and **Shivalinge Gowda** (2019). Measurement of Radon Soil Gas in and around Bharathinagara, Mandya district - Radiation Protection Dosimetry, 1-5
3. **Shivalinge Gowda** (2016) “The Mass Attenuation Coefficients, Effective atomic cross sections, Effective Atomic Numbers and Electron densities of some Halides” - International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering **Vol:10**, No:8, 366-373
4. Chandrashekar, R T Radhika, B M Venkatesha, S Ananda, **Shivalinge Gowda**, T S Shashikumar, H Ramachandra (2016). “Oxidation of Amitriptyline by Bromamine - T in Acidic Buffer Medium: A kinetic and Mechanistic Approach”. International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering **Vol.10**, No.8, Page 1070-1075.
5. S. Krishnaveni, **Shivalinge Gowda**, T. Yashoda, T.K. Umesh, Ramakrishna Gowda\* (2005) “Incoherent scattering of  $^{137}\text{Cs}$  gamma rays in rare-earth elements Nd, Sm, Gd, Er and Yb” – Radiation Physics and Chemistry **Vol. 74**, 1-6.
6. **Shivalinge Gowda**, S. Krishnaveni, Ramakrishna Gowda\* (2005) “Studies on Effective Atomic Numbers and Electron Densities in Amino Acids and Sugars in the Energy Range 30-1333 keV” – Nuclear Instruments and Methods in Physics Research Section **B 239**, 361-369,.
7. **Shivalinge Gowda**, S Krishnaveni, T Yashoda, T K Umesh\* and Ramakrishna Gowda (2004) “Photon mass attenuation coefficients, effective atomic numbers and electron densities of some thermoluminescent dosimetric compounds” – Pramana journal of Physics **Vol. 63**, No.3, 529-541.
8. T Yashoda, S Krishnaveni, **Shivalinge gowda**, T K Umesh\* and Ramakrishna Gowda (2002) “X-ray fluorescence in some rare earth and high Z elements excited by 661.6 keV gamma rays” – Pramana journal of Physics **Vol. 58**, No.1, 31-38.

### **II. List of Papers published in National & International Symposium/Conferences:**

9. T S Shashikumar, B C Shivakumar, **Shivalinge Gowda** and Chandrashekar (2017). “Studies on External Gamma Dose rates in air around Hassan City, Karnataka”. 20<sup>th</sup> 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.
10. **Shivalinge Gowda** (2016). “The Mass Attenuation Coefficients, Effective atomic cross sections, Effective Atomic Numbers and Electron densities of some Halides” ICAP 2016 : 18th International Conference on Applied Physics, LONDON, UK,

11. Chandrashekar, R T Radhika, B M Venkatesha, S Ananda, **Shivalinge Gowda**, T S Shashikumar, H Ramachandra (2016). Oxidation of Amitriptyline by Bromamine-T in Acidic Buffer Medium: A kinetic and Mechanistic Approach. ICAP : 18th International Conference on Applied Physics, LONDON, UK,
12. Chandrashekar, B M Venkatesha, S Ananda, **Shivalinge Gowda**, T S Shashikumar, H Ramachandra (2015). Synthesis, structural and docking studies of 0-fluocyno acetanilide (2-cyno-N-(fwan-2yl methyl) actinide) - “International Conference on Engineering, Science, Management and Advance in Research Technology (ICESMART-15)” held during 29<sup>th</sup> and 30<sup>th</sup> April, 2015 at T. John Institute of Technology.
13. **Shivalinge Gowda**, S Krishnaveni, T Yashoda and Ramakrishna Gowda (2009) Studies on effective atomic number and electron density of some chemical compounds - 18<sup>th</sup> National Symposium on Radiation Physics, M. L. Sukhadia University, Udaipur, Rajasthan, India, November, 2009.
14. T Yashoda, S Krishnaveni, **Shivalinge Gowda** and Ramakrishna Gowda (2009) Measurement of  $K_{\alpha}$  and  $K_{\beta}$  XRF cross sections for the elements Sr, Y, Zr, Mo excited by 122 keV photons - 18<sup>th</sup> National Symposium on Radiation Physics, M. L. Sukhadia University, Udaipur, Rajasthan, India, November.
15. S Krishnaveni, T Yashoda, **Shivalinge gowda** and Ramakrishna Gowda (2009) Differential incoherent scattering cross sections for barium in the angular range 10 to 120° - 18<sup>th</sup> National Symposium on Radiation Physics, Department of Physics, M. L. Sukhadia University, Udaipur, M. L. Sukhadia University, Udaipur, Rajasthan, India, November.
16. **Shivalinge Gowda**, S Krishnaveni, T Yashoda, T K Umesh and Ramakrishna Gowda (2003) “Photon mass attenuation coefficients and effective atomic numbers of some halides” – 15<sup>th</sup> National Symposium on Radiation Physics, BARC Mumbai, India.
17. Krishnaveni S, **Shivalinge Gowda**, Yashoda T, Umesh T K, R Gowda (2003) “Incoherent scattering functions of iron and copper at 661.6 keV incident photon energy” – 15<sup>th</sup> National Symposium on Radiation Physics, BARC Mumbai, India.
18. Yashoda T, Krishnaveni, **Shivalinge Gowda**, Umesh T K, R Gowda (2003) “K X-ray production cross sections and fluorescence yield in some low Z elements excited by 14.4 keV photons” – 15<sup>th</sup> National Symposium on Radiation Physics, BARC Mumbai, India.
19. **Shivalinge Gowda**, Krishnaveni S, Yashoda T, Umesh T K and Ramakrishna Gowda (2001) “Attenuation coefficients for photon energy absorption of some thermoluminescent dosimetric compounds” - 14<sup>th</sup> National Symposium on Radiation Physics, Amritsar, India.

### **III. List of Awards:**

1. **Best Oral Presentation Award** for the research paper “The Mass Attenuation Coefficients, Effective atomic cross sections, Effective Atomic Numbers and Electron densities of some Halides”, in 18<sup>th</sup> 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.

**2. Best NSS officer and NSS Unit Award - Bharathi College, Bharathinagara, Mandya Dist. from University of Mysore, Mysore.**