

Faculty Profile



Dr. L. VINAYKUMAR
MSc, B.Ed, M.Phil, PhD
ASSISTANT PROFESSOR, HOD & NCC
OFFICER

Qualification

Programme	Specialization	Institution/University
MSc	Nuclear Physics	University of Mysore, Mysuru
PhD	Radiation Physics	University of Mysore, Mysuru
M.Phil	Nano- materials	Madurai Kamaraj University, Madurai
B.Ed	Physics, Mathematics (PM Method)	Bangalore University, Bangalore

Experience: 16 years

Articles in journals

Sl. No	Title	Name of Journal	Date of Publication	Volume No/Issue No/Page No
1	Small angle scattering of 59.54 keV photons by elemental samples in the atomic number region $13 \leq Z \leq 82$.	<i>Journal of Radiation Research and Applied Sciences</i>	2016	9(1), 35-40.
2	Effective atomic number of some sugars and amino acids for scattering of 241 Am and 137 Cs gamma rays at low momentum transfer.	<i>Applied Radiation and Isotopes</i>	2015	103, 100-101.
3	Coherent scattering cross sections of some lanthanides for 241Am and 137Cs gamma rays at low momentum transfer	<i>The European Physical Journal D</i>	2014	68(3), 1-6
4	Coherent and Incoherent Scattering Cross Sections of Some Lead and Sodium Compounds at Angles below 10° for 241 Am Gamma Rays	<i>Physics Research International</i>	2014	2014.

5	Coherent and Incoherent Scattering Cross Sections of some lanthanum and barium compounds at angles below 10 degree for 241-Am Gamma Rays	JSSCM Journal [ISSN:2277-145X]	2014	1(3), 54-57.
6	Effective atomic number of some samples determined from external bremsstrahlung yield.	<i>International Journal of Physics and Mathematical Sciences,</i>	2012	1, 58-63.
7	Total scattering cross sections of some alloys at angles below 10 degree for 241 Am and 137 Cs gamma rays.	<i>Journal of Applied Physics</i>	2011	2, 33-35.
8	A new method to determine effective atomic number of some alloys.	<i>Journal of Applied Physics</i>	2011	2, 63-66.
9	Coherent and incoherent scattering cross sections of some sugars at angles below 10degree for 241 Am gamma rays.	<i>International Journal of Physics and Mathematical Sciences,</i>	2011	1, 64-67.

Seminars/Conferences/Symposium/Workshops

Sl.No	Name of the Conference /Seminar /Symposium /Workshop	Type of Program	Title of the Article	Role	Venue/ place	Date
1.	One day Seminar	Seminar	“Big Bang and Particle Physics-Cosmic connection”	Participant	JSS College for women, Ch. Nagar.	31 st march 2010
2.	National symposium on Radiation Physics and Nanomaterials (NSRPN-11),	Symposium	A new method to determine effective atomic number of some alloys.	Poster presentation	Punjabi university, Patiala	February 04-05 2011
3.	National symposium on Radiation Physics and Nanomaterials (NSRPN-11)	Symposium	Total scattering cross sections of some alloys at angles below 10 degree for 241-Am and 137-Cs gamma rays.	Poster presentation	Punjabi university, Patiala	February 04-05, 2011
4.	<i>National conference on nuclear applications, hazards and safety measures.</i>	Conference	Total scattering cross sections of some inorganic compounds at	Research scholar	Tumkur University	10-11 Feb, 2012

			angles below 10 deg for ^{241}Am gamma rays			
5.	<i>National symposium on radiation physics: research and application of radiation physics-perspective and prospective.</i>	Symposium	Effective atomic number of some Lanthanum compounds by the study of external Bremsstrahlung.	Oral presentation	Mamallapuram, Tamil nadu	12-14 Dec, 2012
6.	<i>National symposium on radiation physics: research and application of radiation physics-perspective and prospective.</i>	Symposium	Coherent and incoherent scattering cross sections of some lanthanum and barium compounds at angles below 10° for ^{241}Am gamma rays.	Poster presentation	Mamallapuram, Tamil nadu	12-14 Dec, 2012
7.	National Symposium	Symposium	First Indo-Canadian Symposium on Nano Science and Technology	Participant	“The National Institute of Engineering” Mysuru.	20-21 February 2013
8.	<i>DAE-BRNS twelfth biennial Trombay symposium on radiation and photochemistry.</i>	Symposium	Effective atomic number of some sodium compounds from small angle scattering cross section measured at 59.54 keV	Research scholar	Mumbai	2014
9.	National Seminar On Material Science and Engineering	Seminar	Coherent Scattering Cross Sections of Elements for ^{137}Cs Gamma Rays at Low Momentum Transfer	Paper Presentation	JSS College, Ooty Road, Mysore,	21-22 March, 2014
10.	(BNMS-2015) Seminar	Seminar	Benefits of Nuclear and material Science in day-to-day life	Participant	UOM, Mysuru	21-22 August, 2015
11.	Workshop	Workshop	Physics Experiments	Participant	IISC, Bangalore	16 August,

			using expEyes			2015
12.	One day Workshop	Workshop	“Promotion of Research in Colleges”	Participant	JSS College of Arts, Commerce & Science, Ooty Road Mysore	14-03-2015
13.	Lecture workshop	Workshop	“Statistical Physics”	Participant	JSS College, Ooty Road, Mysuru	25-27, Nov15
14.	One Day Orientation Programme	Orientation Programme	Teaching and Learning in 21 st Century – ‘Student Centric Approach’	Participant	JSS College of Arts, Commerce & Science, Ooty Road Mysore	30-03-2015
15.	Indian science congress	Symposium	103 rd Indian science congress held at University of Mysore, Mysuru	Oral Presentation	UOM, Mysuru	03-07, Jan 16
16.	National Symposium	Symposium	Second Indo-Canadian Symposium on Nano Science and Technology	Participant	“The National Institute of Engineering” Mysuru.	18-19 February 2016
17.	One day Workshop	Workshop	Quality of Higher Education Importance and ICT Enabled Teaching	Participant	JSS College of Arts, Commerce & Science, Ooty Road Mysore	30-11-2017
18.	National conference on Radiation Physics	Conference	Radiation Physics	Paper Presentation	Bangalore University	23-24 November, 2017
19.	One Day Orientation Programme	Orientation Programme	Relativity and Gravitational Waves	Organising Secretary	JSS College of Arts, Commerce & Science, Ooty Road Mysore	10-3-2018
20.	One day Workshop	Workshop	Capacity Building	Participant	JSS College of Arts, Commerce & Science, Ooty Road Mysore	24-03-2018
21.	One Day Orientation Programme	Orientation Programme	Intellectual Property Rights	Participant	JSS College of Arts,	11-04-2018

					Commerce & Science, Ooty Road Mysore	
22	One day National level seminar	Lecture		Participant	JSS CACS MYSURU	17/12/2021
23	Teacher orientation and Retaining programme			Participant	JSS CACS MYSURU	14/01/2022
24	Teacher orientation and Retaining programme	Workshop		Participant	JSS CACS MYSURU	28/02/2022

Own MPhil/PhD Thesis

Sl.No.	Title	Guide Name	Institution	Month Year	Status
1	STUDIES ON THE SCATTERING OF GAMMA RAYS BY SOME MATERIALS AT LOW MOMENTUM TRANSFER	Prof. T K Umesh	DOS in Physics University of Mysore	15-05-2015	PhD Completed
2	OPTICAL ABSORPTION SPECTRA OF METAL NANOPARTICLES	Prof. S Prakash	Madurai Kamaraj University, Madurai	30-05-2008	M.Phil completed

MPhil/PhD Guided/Adjudicated

Sl.No.	Title	Name of the Student	Institution	Role	Month Year
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