




JSS MAHAVIDYAPEETHA

# JSS ACADEMY OF TECHNICAL EDUCATION

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## Name of the Department: Engineering Physics

<b>Name of the Teaching Staff</b>	Dr. S.PRASANNA KUMAR		
<b>Designation</b>	PROFESSOR		
<b>Department</b>	PHYSICS		
<b>Date of Joining the Institution</b>	19-09-1999		
<b>Qualification with Class / Grade</b>	M.Sc., M.Phil., Ph.D.	<b>PG:</b> <b>M.Sc.,</b> Solid State Physics	<b>Ph. D.</b> Nuclear Atomic Physics
<b>Total Experience in Years</b>	<b>Teaching : 20 Years</b>	<b>Industry -Nil</b>	<b>Research : 5 Years</b>
<b>Papers Published in Journals</b>	International: 05	<b>National: 05</b>	
<b>Papers Presented in Conferences / Symposium</b>	International:	<b>National: 07</b>	
<b>PhD Guide? Give field &amp; University</b>		<b>University:</b>	
<b>PhDs / Projects Guided</b>	No. of Ph.D's Awarded: Nil No. Ph.D's Guiding : Nil	<b>Projects at Masters Level: Nil</b>	
<b>Books Published / IPRs/ Patents</b>	Nil		
<b>Professional Memberships</b>	Nil		
<b>Consultancy Activities</b>	--		
<b>Awards</b>	<ul style="list-style-type: none"><li>• Merit certificate by Govt. of Karnataka in the year 1986</li><li>• Cleared SLET conducted from Govt. of Karnataka in the year</li></ul>		
<b>Grants fetched</b>			
<b>Interaction with</b>			



1. Details of Publications:

Google scholar link: <https://scholar.google.co.in/citations?user=fEOVng0AAAAJ&hl=en>

As on 19-09-2016

Citation Indices	All	Since 2011
Citations	26	21
h-Index	3	2
i10-Index	1	1

a. Year: 01-01-2015 to 31-12-2015

i. Journals: International

Sl. No.	Name of Co-Author	Title of Paper	Name of the Journal	Publisher	Publication citation ISSN, ISBN, Vol. No., Issue, pp
1	Sankarshan B M, and T. K. Umesh	<i>Double differential cross sections for scattering of <sup>137</sup>Cs gamma rays by some steel alloys,</i>	International Journal on Research Methodologies in Physics and Chemistry (IJRPC)	IJRPC Board, A unit of Auricle Technologies Pvt Ltd	ISSN : 2349-7963 Volume No. :2 Issue :1 Month & Year : January 2015 Page Nos. : 001-004
2	T. K.Umesh.	<i>Determination of effective atomic number and effective electron densities of some inorganic compounds for Compton effect in the gamma energy range 280kev to 1115kev</i>	Elixir Nuclear & Radiation Physics	Elixir Publishers.	ISSN : 2229-712X Volume No. :68 Issue :1 Month & Year : 2014 Page Nos. : 22688-22690

ii.	3	Krishnaveni and T.K.Umesh, ,	Determination of rest mass of the electron by Compton scattering experiment	European journal of physics	IOP Publishing (UK)	ISSN : 0143-0807 Volume No. : 33 Issue : Month & Year :2012 Page Nos. : 65-72
iii.	4	T.K.Umesh	<i>Effective atomic number of composite materials for Compton effect in the gamma ray region 280-1115keV</i>	Applied radiation and isotopes	Elsevier	ISSN : 0969-8043 Volume No. : 68 Issue : 1, Month & Year : 2010 Page Nos. : pp. 2443-2447
ii.	5	G. Ramachandran, P.N.Deepak 29, L45 (2003)	<i>Photon polarization in np fusion,</i>	journal of Physics G: Nuclear and particle physics	IOP Publishing (UK)	ISSN : 0954-3899 Volume No. : 29 Issue : 29, Month & Year : 2003 Page Nos. : pp. L45-50
iii.	6	G. Ramachandran, P.N.Deepak	<i>Pd fusion with polarized deuterons</i>	journal of Physics G: Nuclear and particle physics	IOP Publishing (UK)	ISSN : 0954-3899 Volume No. : 25 Issue : , Month & Year : 1999 Page Nos. : pp. L155

ii. j

journals: National

Sl. No	Name of Co-Author	Title of Paper	Name of the Journal	Publisher	Publication citation ISSN, ISBN, Vol. No., Issue, pp
1	T.K.Umesh,	<i>Experimental measurement of effective atomic number of composite materials for Compton effect in the photon energy range 280-1115keV by a new method</i>	Pramana - journal of Physics	Indian Academy of Sciences	ISSN : 0304-4289 Volume No. : 77 Issue : 2, Month & Year : 2011 Page Nos. : pp. 335-344
2	T.K.Umesh,	<i>Compton Profiles and Electron densities of composite materials,</i>	Journal of Applied Physics (ISST),	Intellectual Society for Socio-Techno Welfare, Ghaziabad	ISSN : 0976-903X Volume No. : 1 Issue : 1, Month & Year : Jan –Jun 2010

					Page Nos. : pp. 17-18
iii.	3 <u>C</u>  o n f	V. Manjunathaguru and T.K.Umesh  <i>Effective atomic number of some H-, C-, N- and O- based composite materials derived from differential incoherent scattering cross sections,</i>	Pramana - journal of Physics,	Indian Academy of Sciences	ISSN : 0304-4289 Volume No. : 74 Issue : 4, Month & Year : 2010 Page Nos. : pp. 555-562
	4  e r e n c	T.K.Umesh,  <i>Studies on the incoherent scattering of gamma rays by some composite materials</i>	<i>myScience,</i>	Director, Prasaraanga, University of Mysore	ISSN : Volume No. : 3(3) Issue : , Month & Year : 2009 Page Nos. : pp. 47-51

iv. International Conferences

Sl. No	Name of Co-Author	Title of Paper	Name of the Conference	Publisher	Publication citation ISSN, ISBN, Vol. No., Issue, pp
1	B.M.Sankarshan, and T.K.Umesh	Measurements of Effective atomic number and Electron densities of some Inorganic Compounds of Industrial interest”	DAE BRNS 12 <sup>th</sup> Biennial Symposium on Nuclear and Radiochemistry-NUCAR 2015	Bhabha Atomic Research Centre Mumbai, during 9-13, February 2015	
2	T.K.Umesh	Effective atomic number and effective electron densities of some inorganic compounds for Compton effect in the gamma energy range 280keV to 1115keV	Trombay Symposium on Radiation and Photochemistry	Bhabha Atomic Research Centre Mumbai, during 2-6-9, January 2014	
3	T.K.Umesh	Differential Incoherent Scattering Cross Sections And Effective Atomic Number Of Some Steel Alloys In The Energy Region 279.1keV To 1115.5keV	National Symposium on Radiation Physics (NSRP- 19) Mamallapuram, Tamil Nadu, India	Proceedings NSRP-19,	Dec. 12-14, 2012

	4	V. Manjunathaguru, G. Shivakumaraswamy and T.K. Umesh	<i>Studies on the interaction of photon with sugars in the energy region 5.9 to 1332.1keV,</i>	National Symposium on Radiation Physics (NSRP- 17) Saha Institute of Nuclear Physics, Kolkata during		Nov14-16, 2007
iv.	5	V. Manjunathaguru G. Shivakumaraswamy and T.K. Umesh	<i>Effective atomic number and electron densities of rare earth samples in the energy range 145-1330keV</i>	National Symposium on Radiation Physics (NSRP- 18) ML Sukhadia University, Udaipur, Rajasthan		Nov 19-21, 2009

v. National conferences / workshops

Sl. No	Name of Co-Author	Title of Paper	Name of the Conference	Publisher	Publication citation ISSN, ISBN, Vol. No., Issue, pp
1	B.M.Sankarshan, and T.K.Umesh	<i>Double differential scattering cross sections of some steel alloys for <sup>137</sup>Cs gamma rays</i>	National Seminar on Material Science and Engineering JSS College, Ooty Road, Mysore,	Proceedings of National Seminar On Material Science and Engineering	21-22 March 2014
2	T.K.Umesh	<i>The Compton profiles of Ta for 241-Am Source</i>	Symposium of Radiation sources, detection and applications,	Physics department Punjabi university, Patiala 147002	Feb and 5-6, 2007