

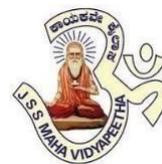


JSS Mahavidyapeetha

JSS Academy of Technical Education

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060

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FACULTY PROFILE

Department: Engineering Physics

1. Personal Details

NAME	Dr Prasanna Kumar S	
DEPARTMENT	Physics	
DESIGNATION	Professor	
PHONE	+91 9448842583	
EMAIL ID	prasannakumars@jssateb.ac.in	
Date of Joining (JSSATEB)	20-09-1999	

2. Experience

Total Experience in Years	Teaching: 29 Years	Industry: Nil	Research: Nil
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3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Sc.,	PCM	1991	Yuvaraja College, Mysore, Karnataka INDIA	University of Mysore, Karnataka
M.Sc.	Solid State Physics	1995	Manasagangothri, Mysore Karnataka INDIA	University of Mysore, Karnataka
Ph.D.	Nuclear Radiation Physics	2012	Manasagangothri, Mysore Karnataka INDIA	University of Mysore, Karnataka
Post Doc.	---			

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 05	National: 04
Papers Published in SCOPUS indexed Journals	International: 04	National: 00
Papers Published in other Journals	International: 00	National: 04
Papers Presented in Conferences / Symposium	International: 00	National: 00
Books / Book chapters Published	Name of the book: Publisher: Year of Publication: Nil	

5. **Research Guidance:** Nil

6. **Grants**

i. **Funds Received (Projects):** Nil

ii. **Patents:** Nil

iii. **Consultancy:** Nil

7. **Awards Received:** Nil

8. **Publications**

i. **International Journals**

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Compton profile for Ta for 59.54keV gamma radiation for industrial applications	Prasanna Kumar S, Umesh TK	High technology letters	31, 6, 2025	Scopus	0.25	Institute of Scientific and technical informations of China
2	Studies on the incoherent scattering of some steel alloys for Compton effect in the incident angular range 60-100 degree		Aegeaum Journal	12, 2, 2024	Scopus	0.30	Universite de Liege
3	Measurement of incoherent scattering cross sections and average effective atomic numbers of some sodium salts by gamma irradiation for commercial applications	Prasanna Kumar S, Sankarshan BM Umesh TK	High technology letters	28, 9, 2022	Scopus	0.25	Institute of Scientific and technical informations of China
4	Effective atomic number and effective atomic electron densities of some composite material of industrial interest for Compton scattering	B M Sankarshan T K Umesh	Aegeaum Journal	8 9 2020	Scopus	0.30	Universite de Liege

5	Effective atomic number of polymer blended granite stones for Compton scattering	B M Sankarshan T K Umesh	Indian journal of Pure & Applied Physics,	68 8 2018	WOS	0.935	NISCAIR- CSIR, India
6	Determination of rest mass of the electron by Compton scattering Experiment	S Prasanna Kumar , T K Umesh, Krishnaveni S	European journal of physics	33 2012	Both	0.753	IOP Science
7	Effective atomic number of composite materials for Compton effect in the gamma ray region 280-1115keV	S Prasanna Kumar and T K Umesh	Applied radiation and isotopes	68 1 2010	Both	1.27	Elsevier
8	Photon polarization in np fusion, G.	Ramachandran, P.N.Deepak and S. Prasanna Kumar ,	journal of Physics G: Nuclear and particle physics	29 L45 2003	WOS	3.5	IOP Science
9	Pd fusion with polarized deuterons ,	Ramachandran, P.N.Deepak and S. Prasanna Kumar ,	journal of Physics G: Nuclear and particle physics	25 L155 1999	WOS	3.5	IOP Science

ii. National Journals:

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Experimental measurement of effective atomic number of composite materials for Compton effect in the photon energy range 280-1115keV by a new method	Prasanna Kumar S T K Umesh	Pramana: Journal of Physics	77 2 2011	WOS	1.688	Indian Academy of Sciences
2	Effective atomic number s of some H-C-N-O-Based Composite Materials derived from incoherent scattering cross Sections	S Prasanna Kumar, V M guru and TK Umesh	Pramana: Journal of Physics	74 4 555-562	WOS	1.688	Indian Academy of Sciences

3	Double differential cross sections for scattering of ^{137}Cs gamma rays by some steel alloys	Sankarshan B M, S. Prasanna Kumar and T. K. Umesh	International Journal on Research Methodologies in Physics and Chemistry (IJRPC)(2015	Vol 2, Issue-1, 2015	-	-	Auricle Technologies Pvt. Ltd.
4	“Determination of effective atomic number and effective Electron densities of some inorganic compounds for Compton effect in the gamma energy range 280kev to 1115kev” S.	Prasanna Kumar and T. K.Umesh,	Elixir Nuclear & Radiation Phys.	68 (2014)	-	-	Elixir Nuclear & Radiation Phys.
5	Compton profiles and electron densities of composite materials	S Prasanna Kumar and T K Umesh	ISST Journal of Applied Physics	01 (2010)	-	-	Intellectual society for Socio-Techno welfare, Ghaziabad UP
6	Studies on the incoherent scattering of gamma rays by Some composite materials-	S.Prasanna Kumar and T.K.Umesh,	myScience,	3(3) 47-51 (2009),	--	--	University of Mysore

iii. Conferences Nil

iv. Workshops /Conferences Attended

Sl. No.	Name of the workshop / Conference	Organizer	Date
1	Advances in Materials Ceramics and Engineering Sciences	Dayananda Sagar College of Engineering, India	17-18 th January 2020
2	DAE BRNS 12 th Biennial Symposium on Nuclear and Radiochemistry-NUCAR 2015	BARC, Mumbai	9-13, February 2015
3	Trombay Symposium on Radiation and Photochemistry	BARC, Mumbai	2-6-9, January 2014
4	First Indo-Canadian Symposium on Nano-Science and Technology	The National Institute of Engineering, Mysore, India	February 20-21, 2013
5	National Symposium on Radiation Physics-19	Mamallapuram, Tamil Nadu, India	Dec. 12-14, 2012
6	XVII National Symposium on Radiation Physics (NSRP- 17)	Saha Institute of Nuclear Physics, Kolkata	Nov14-16, 2007.
7	Symposium of Radiation sources, detection and applications,	Physics department, Punjabi university, Patiala 147002	Feb 5-6, 2007

v. Workshops / Conference (Organized):Nil

vi. Conference Attended (those sponsored by AICTE / ISTE/IETE/TEQIP) Nil

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organized by	Date of completion / Award	Grade / Marks
1	From Big bang to dark energy	Coursera	May 22, 2020	85
2	Astronomy: Exploring time and space	Coursera	July 30, 2020	93
3	Particle Physics: an introduction	Coursera	Dec 04, 2020	78
4	Optical sensors	NPTEL	Mar 31, 2020	80
5	Lasers: Fundamental and Applications	NPTEL	Dec 25, 2020	98
6.	Structural analysis of nanomaterials	NPTEL	Sept 30,2021	81

10. Membership of Professional Bodies:

11. Any other information you will like to share about your professional experience

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