


STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Prof.	First Name	Shruti	Last Name	Aggarwal	
Designation		Professor				
School /Dept. Name		University School of Basic and Applied Sciences				
Address:		BFR- 302, B-Block, GGSIPU, Sec-16C, New Delhi-110078				
Phone No.	Office	011-25302412				
	Residence	(optional)				
	Mobile	(optional)				
Email	1. shruti@ipu.ac.in			2. shruti.al@gmail.com		
Web Page (if any)						
Subjects Taught	B.Tech. and M.Tech. Courses (Theory and Lab)					
Areas of Interest/Specialization	Solar Photovoltaics, Hybrid SPV and thermoelectric systems, Silver nanowires based transparent contacts, (experimental and theoretical investigations), perovskite materials, dye sensitized solar cells, Dosimetry, Crystal growth,					
Experience (in years)	Total	23				
	Industry	-				
	Teaching	23				
	Research	23				
Educational Qualifications	UG	B.Sc. (H) Physics from DU				
	PG	M.Sc. Physics from DU				
	Doctorate	Ph.D. from IIT Delhi				
	Any other	Postdoc from National Renewable Energy Laboratory (NREL), Colorado US				
Research Publications in Journals (last 5 years)	P. Seth, G. Swati, D. Haranath, S.M.D. Rao, S. Aggarwal, "A photoluminescence, thermoluminescence and electron paramagnetic resonance study of EFG grown europium doped lithium fluoride (LiF) crystals", J. Phys. Chem. solid, vol. 118, pp. 53-61, July 2018.					

	<p>A. Tiwari and S. Aggarwal, “Thermal modelling, performance analysis and exergy study of a concentrated semi-transparent photovoltaic-thermoelectric generator (CSPV-TEG) hybrid power generation system”, Int. J. Sustain. Energy, vol. 40, pp. 947-976, March 2021.</p> <p>A. Jain, P. Seth, A. Tripathi, P. Kumar, S. Aggarwal, “TL/OSL response of carbon ion beam irradiated NaMgF₃:Tb”, J. Lumin., Vol. 222, pp. 117159, June 2020.</p>				
Papers Published in Conference Proceedings (last 5 years)	<p>A. Jain, P. Seth, S. Aggarwal, “Synthesis and thermoluminescence properties of rare earth (Tb, Dy) doped fluoroperovskite NaMgF₃”, Proc: Poster, J. Med. Phys., P-245, S-248, vol. 42, Issue 5, Supplement 1, November 2017.</p> <p>P. Seth, S. Aggarwal, A. Soni, “Optically stimulated luminescence of LiCaAlF₆: Tb phosphor”, J. Med. Phys., CODEN JMPHFE; vol. 43, (suppl.1), pp. 17, 2018.</p> <p>A. Tiwari and S. Aggarwal, “The effect of Concentration Ratio and number of p-n Thermocouples on Photovoltaic-Thermoelectric Hybrid Power Generation System”, Springer Proc. Energy, pp. 1521-1532, October 2020.</p> <p>A. Jain, Sahil, P. Kumar, S. Aggarwal, “Particle Size Effect On TL/OSL Response Of NaMgF₃:Tb Phosphor”, Mater. Today: Proc., vol. 28, pp. 211-214, February 2020.</p> <p>Y. Bharti, S. Aggarwal, V. Malik, “Effect of filler length dispersityon two-dimensional nanowire-based composites”, Mater. Today: Proc., vol. 28, pp. 251-253, February 2020.</p>				
Books Authored/Book Volume Chapters	-				
No. of Conferences	National	Attended		Organized	
		8	1		
	International	20		1	
Research Guidance	Awarded	PG	M. Phil	Doctorate	Others (Post-doc)
		20+	-	2	1
	Undergoing	-	-	3	1
Research Projects	Completed	11 (UGC, DST, IUAC, AICTE, GGSIPU)			
	Undergoing	3			

Awards & Distinctions	AICTE Young Scientist Career Award, Visiting Associateship of Solar Energy Centre, Ministry of New and Renewable Energy (MNRE), UGC Raman fellowship, Visiting Associateship, IoP, Taipei, Taiwan
Administrative Assignments Handled	Dean USBAS (2017-2020), Chairperson Rate Contract Committee, Chairperson, Residence Allotment Committee, Coordinator Incubation Centre (ex), Chairperson Departmental Promotion Committee for Promotion of various administrative staff, Nodal Officer for activities related to Association of Indian Universities (AIU), member, coordinator and chairperson of several statutory and others academic and administrative related work/bodies of university
Association with Professional Bodies	Solar Energy Society of India, IIT Delhi Alumni Association, ASSOCHAM
Any other Achievements	Statutory body Member of various Universities/Institutes, headed publication of 21 year Journey of the University since its inception, governing council member of several organizations of repute like Indian Institute of Technology Delhi Alumni Association (IITDAA), Solar Energy Society of India (SESI), Formerly National academic convener SESI, member accelerator user committee IUAC