STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Dr.	First Name	Sonnathi	Last Nam				
Designation		Assistant Professor						
School /Dept. Name		University School of Basic & Applied Sciences						
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Subjects Taught		 Graduation Courses Physics -1 Physics -2 B.Tech Ist Year BA-110) Material Science Material Science Post Graduation Courses Nano Science & Engineeringg (M.Tech – Engg Physics- BAEP705) Advanced Nanomaterials (M.Tech -Nano Science & Technology-NST-201) Nano Device and Nano Sensor (M.Tech -Nano Science & Technology- NST-106) Elements of Material Science and properties of Nano Materials (M.Tech -Nano Science & Technology- NST107) Pre PhD Courses Characterization of Bulk & Nano Structure Materials Nano structured thermoelectric materials 						
on	Specializati	 Synthesis of nanomaterials Energy Harvesting: Thermoelectric Materials & Thermoelectric Device High temperature of Superconductors Quantum Size Effects: Magnetic Materials 						
Experienc	e (in years)	Total		➤ 29 Ye	ears			
		Industr						
		Teaching		>16 Years				
			Research >29 years					

Educational Qualifications	UG	B.Sc. from Osmania University, Hyderabad India (1991)			
	PG	M.Sc. from Osmania University, Hyderabad India (1993)			
	Doctorate	Ph. D. from Osmania University, Hyderabad India (2001)			
	Any other	111414 (2001)			
Research Publications in Journals (last 5 years)	1. Wei, P. C., B. Rao, A. M. (2 SnSe. Natural 2. Khasimsahel Neeleshwar, thermoelectring Physics, 17(2) 3. Sonnathi, N., Investigation Bulk Nanostr. 4. Sharma, S. E. pressed CZT Advances, 36. Sharma, S. E. Enhanced the Ag nanoparti. 6. Panwar, A., If for achieving thermoelectri. 7. Sharma, S. E. morphological nanosheets s. 8. Sharma, S. E. optimization inclusion of g. 9. Basu, R., Maranda, R., Maranda, R., Maranda, S. Neeleshwar, thermoelectri partial band of the state	, Panwar, A., Malik, V., & Bagga, A. (2018). Theoretical s Of Interfacial Scattering Effects On Thermoelectric Properties Of ructured PbTe System. <i>MRS Advances</i> , <i>3</i> (24), 1329-1334. D., & Neeleshwar, S. (2018). Thermoelectric properties of hot S micro spheres synthesized by microwave method. <i>MRS</i> (24), 1373-1378. D., Khasimsaheb, B., Chen, Y. Y., & Neeleshwar, S. (2019). ermoelectric performance of Cu2ZnSnS4 (CZTS) by incorporating icles. <i>Ceramics International</i> , <i>45</i> (2), 2060-2068. Malik, V., Neeleshwar, S., & Bagga, A. (2019). Probing the path a broad temperature plateau of the figure of merit in ic nanocomposite materials. <i>Nanotechnology</i> , <i>31</i> (3), 035405. D., Bayikadi, K., Raman, S., & Neeleshwar, S. (2020). Structural, al and thermoelectric properties of self-decorated copper selenide synthesized at room temperature. <i>Current Applied Physics</i> . D., Bayikadi, K., Raman, S., & Neeleshwar, S. (2020). Synergistic of thermoelectric performance in earth-abundant Cu2ZnSnS4 by graphene nanosheets. <i>Nanotechnology</i> , <i>31</i> (36), 365402. andava, S., Shenoy, U. S., Bhat, D. K., Khasimsaheb, B., Debnath, eeleshwar, S. (2021). Synergistic manifestation of band and and agineering in the single aliovalent Sb alloyed anharmonic SnTe urrence with rule of parsimony. <i>Materials Advances</i> , <i>2</i> (24), 7891- Masu, R., Khasimsaheb, B., Bathula, S., Singh, A., & S. (2021). A synergistic approach to achieving the high to performance of La-doped SnTe using resonance state and convergence. <i>Materials Advances</i> , <i>2</i> (13), 4352-4361. Bisht, N., Saini, A., Bairwa, M. K., Bayikadi, K., Katre, A., &			
		(2021). Investigating the key role of carrier transport mechanism of lakes with enhanced thermoelectric power technology.			

Papers Published in Conference Proceedings (last 5 years)						
Books Authored/Book Volume Chapters	1. "Major challenges toward development of efficient thermoelectric materials: From high figure-of-merit (zT) materials to devices", S. Neeleshwar, Anjali Saini, Mukesh Kumar Bairwa, Neeta Bisht, Ankita Katre, and G Narsinga Rao, Springer Nature, 2021{Accepted}					
No. of Conferences	National	Attende	ed	Organized		
		05		01		
	International	35		03		
Research Guidance	Awarded	PG	M. Phil	Doctorate		
		19	-	04		
	Undergoing	-	-	04		
Research Projects	Completed	08				
	Undergoing	02				
Awards & Distinctions	stinctions Academia Sinica Fellow					
Administrative Assignments	Assistant Program Coordinator for NSS (2018 to till date)					
Handled	Placement Officer for M.Tech (EP & NST)					
	Program Coordinator for M.Tech Engg Phyiscs (on going)					
	Coordinator for IOP, Academia Sinica, Taiwan -GGSIPU					
	Collaborative research program Coordinator for Personality Development Program for faculty and students					
	Coordinator for Joint Assessment Committee					
	Convener for Academic Audit Activity					
	Convener for Academic Audit Activity					
	Convener and Member of subject expert selection of School Teachers of Orissa					
Association with						

Professional Bodies	American Physical Society		
	Chinese Physical Society		
	International Thermoelectric Society		
	Indian Physics Teachers Association		
Any other Achievements	Advisor to Instapower Ltd		