STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

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Title	Dr.	First Name	Sonn	athi	Last Name	Neeleshwar		
Designation		Assistant Professor						
School /Dept. Name		University School of Basic & Applied Sciences						
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		Residence						
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Web Page (if any)				I			
Subjects Ta	aught	 Gradu 1. P 2. P 3. M Post C 1. N 2. A 3. N 4. E S Pre P 1. Q 2. N 	uation Co Physics -1 Physics -2 Aaterial S Graduatio Vano Scier Vano Scier Vano Devi Clements o Icience & ' PhD Cours Character Nano stru	urses cience n Courses nce & Engined Nanomaterial ce and Nano S of Material Sci Technology- N ses rization of Bul ctured thermo	(1 (1 (1 eringg (M.Te ls (M.Tech - N Sensor (M.Tech ience and pro NST107) k & Nano St pelectric mat	B.Tech I st Year BA-111) B.Tech I st Year BA-110) B.Tech II nd Year BA-214) ech –Engg Physics- BAEP7 Nano Science & Technolog ch -Nano Science & Technolog ch -Nano Science & Techno operties of Nano Materials erials	05) y-NST-201) ology- NST-106) (M.Tech -Nano	
Areas of Interest/Sp on	pecializati	 Synthesis of nanomaterials Energy Harvesting: Thermoelectric Materials & Thermoelectric Device High temperature of Superconductors Quantum Size Effects : Magnetic Materials 						
Experience	e (in years)	Total		~	29 Years			
		Industr	ry					
		Teachin	ng	>16 Y	lears			
1		Resear	ch	>29 y	vears			

Educational Oualifications	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					
Research	(Details should be provided in APA/IEEE format)					
Publications in Journals	1. Wei, P. C., Bh Rao, A. M. (20 SnSe, <i>Nature</i> ,	attacharya, S., He, J., Neeleshwar, S., Podila, R., Chen, Y. Y., & 016). The intrinsic thermal conductivity of 539(7627). E1-E2.				
(last 5 years)	2. Khasimsaheb, Neeleshwar, S thermoelectric <i>Physics</i> , <i>17</i> (2)	B., Singh, N. K., Bathula, S., Gahtori, B., Haranath, D., & S. (2017). The effect of carbon nanotubes (CNT) on properties of lead telluride (PbTe) nanocubes. <i>Current Applied</i> 0, 306-313.				
	 Sonnathi, N., I Investigations Bulk Nanostru Sharma, S. D. 	 Sonnathi, N., Panwar, A., Malik, V., & Bagga, A. (2018). Theoretical Investigations Of Interfacial Scattering Effects On Thermoelectric Properties Of Bulk Nanostructured PbTe System. <i>MRS Advances</i>, <i>3</i>(24), 1329-1334. Sharma, S. D., & Neeleshwar, S. (2018). Thermoelectric properties of hot 				
	pressed CZTS Advances, 3(2	S micro spheres synthesized by microwave method. <i>MRS</i> 24), 1373-1378.				
	5. Sharma, S. D. Enhanced the Ag nanopartic	, Khasimsaheb, B., Chen, Y. Y., & Neeleshwar, S. (2019). rmoelectric performance of Cu2ZnSnS4 (CZTS) by incorporating les. <i>Ceramics International</i> , <i>45</i> (2), 2060-2068.				
	6. Panwar, A., M for achieving a thermoelectric	alik, V., Neeleshwar, S., & Bagga, A. (2019). Probing the path a broad temperature plateau of the figure of merit in a nanocomposite materials. <i>Nanotechnology</i> , <i>31</i> (3), 035405.				
	7. Sharma, S. D. morphological nanosheets sy	, Bayikadi, K., Raman, S., & Neeleshwar, S. (2020). Structural, and thermoelectric properties of self-decorated copper selenide (nthesized at room temperature. <i>Current Applied Physics</i> .				
	8. Sharma, S. D. optimization or inclusion of gr	, Bayikadi, K., Raman, S., & Neeleshwar, S. (2020). Synergistic f thermoelectric performance in earth-abundant Cu2ZnSnS4 by aphene nanosheets. <i>Nanotechnology</i> , <i>31</i> (36), 365402.				
	9. Basu, R., Man A. K., & New scattering eng alloy in concur 7906.	Idava, S., Shenoy, U. S., Bhat, D. K., Khasimsaheb, B., Debnath, eleshwar, S. (2021). Synergistic manifestation of band and ineering in the single aliovalent Sb alloyed anharmonic SnTe rrence with rule of parsimony. <i>Materials Advances</i> , 2(24), 7891-				
	10. Mandava, S., Neeleshwar, S thermoelectric partial band co	Basu, R., Khasimsaheb, B., Bathula, S., Singh, A., & 6. (2021). A synergistic approach to achieving the high performance of La-doped SnTe using resonance state and onvergence. <i>Materials Advances</i> , <i>2</i> (13), 4352-4361.				
	11. Mandava, S., Sonnathi, N. (2 in SnSe nanof factor. <i>Nanote</i>	Bisht, N., Saini, A., Bairwa, M. K., Bayikadi, K., Katre, A., & 2021). Investigating the key role of carrier transport mechanism lakes with enhanced thermoelectric power <i>chnology</i> .				

Papers Published in Conference Proceedings (last 5 years)					
Books Authored/Book Volume Chapters	1. "Major challenge materials: From I Neeleshwar, Anjal Katre, and G Narsi	es toward deve nigh figure-of- i Saini, Mukes nga Rao, Sprin	elopment -merit (zT h Kumar l ger Nature	of efficient thermoelectric) materials to devices", S. Bairwa, Neeta Bisht, Ankita , 2021{ Accepted }	
No. of Conferences	National	Attended		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	Academia Sinica Fel	low			
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				
	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