

**J.
LURDHUMARY**



Designation: Assistant Professor

Qualification: M.Tech, Phd (pursuing)

Area of specialization: Nano Science and Technology

Experience : (As On DEC 2021)	Industrial Experience	Teaching Experience
	Nil	6

Number of workshop / FDP attended:	Number of Workshops	Number of FDPs
	9	28

Publications:	Conference		Journal		
	National	International	SCI	Scopus	Others
	-	3	5	4	

3.Patents:	National	International
		4

Professional Body Membership: IEEE ,MEMBERSHIP ID: 100623330
ISTE, MEMBERSHIP ID:LM125588

Staff Achievements:	1. completed online certification course on Advanced Certification in Data Science and AI by IIT Roorkee. 2. NPTEL STAR 3. NPTEL Gold certificates 4. NPTEL Silver and Elite certificates			
Workshop Details:	Sl. No.	Title	Venue	Month/Year
	1.	Nanomaterial & Nano device modeling simulation using rescu&nanodca l software	Impulse Technology on .	April/2025
	2.	Nano device modeling simulation using rescu&	Impulse Technology on .	April/2024
	3.	Thesis Writing	ESSGEE DIGISKILLS	October/2023
	4.	Nanomaterial & Nano device modeling simulation using rescu&nanodca l software	Impulse Technology on .	April/2023

	5.	Research opportunities in semiconductor materials and Devices	SRM	October/2022
	6.	automated test systems.	QMAX	April/2022
	7.	“International workshop on advanced functional nanomaterials” on the topic “Transistors without p-n junctions using nanowires”	Anna university	MARCH 2017
	8.	Thin film solar cells	Anna university	April/ 2017
	9.	Haptic robotic arm	Technophilia systems	April/ 2017
FDP Details:	Sl. No.	Title	Venue	Month/Year

	1.	Next-Generation Algorithms and Technological Advance	MIT CAMPUS, ANNA UNIVERSITY	06/01/2025 to 11/01/2025
	2.	AI and Quantum Computing:Glimpsing the Near Future	SRI SAIRAM ENGINEERING COLLEGE	20/01/2025 to 25/01/2025.
	3.	Advancement in Green Composites for Potential Applications at Builders Engineering College	Sri Sairam Institute of Technology	27/01/2025 to 01/02/2025
	4.	Next-Generation Healthcare: Integrating IoT and AI for Predictive Diagnostics and Monitorin	SRI VENKATESWARA COLLEGE OF ENGINEERING	13/10/2025 to 18/10/2025.
	5.	Transformative Pathways:AI and Emerging Trends in Teaching and Research Emerging	Avantika University	24.06.2024 to 30.06.2024.
	6.	Deep Learning and IOT Driven Smart Applications	MLRIT	24.06.2024 to 29.06.2024.
	7.	Innovative Teaching and Learning Peadagogy”	by Research foundation of India & RFI- CARE	23.06.2024 to 27.06.2024.
	8.	Sustainable & Alternate Energy Source	Amity University	17.06.2024 to 21.06.2024

	9.	Industry 4.0: Technological Evolution	TCE	01.04.2024 to 04.04.2024
	10.	Recent Trends in Nano devices, Materials and its Applications	SIMATS	26.02.2024 to 2.03.2024
	11.	Research Trends in AI innovation & solutions for Contemporary Challenges	SEC	22.02.2024 to 27.02.2024
	12.	Research trends in AI Innovation and solutions for contemporary challenge	SEC	22.01.2024 to 27.01.2024.
	13.	Recent advances in Nano Electronics and its applications	AEC	02.01.2024 to 06.01.2024
	14.	AI Tools for Streaming Academic Research and Paper Writing	SRR	05.12.2023 to 09.12.2023.
	15.	Research Methodology	Satyabhama	12.09.2023 to 17.09.2023
	16.	High performance VLSI architectures for multidisciplinary applications	SRM	31.07.23 to 05.08.2023

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Publication Details:

1. **Lurdhumary J**, Princye, et al... Optimizing Supercapacitor Performance with LSCF, ST, BST, and Coconut Shell Activated Carbon JOURNAL OF NEW MATERIALS FOR ELECTROCHEMICAL SYSTEMS Volume 27 Issue 3 Page 215-226 DOI 10.14447/jnmes.v27i3.a07 (SCI)

2..**Lurdhumary J** Devi, PB et al..Adaptive Residual Group Dual-Channel Pulse-Coupled Neural Network for Autonomous Drone Navigation in Complex Urban Wind Zones 2025 5th international conference on trends in material science and inventive materials, ictmim page 367-374 doi 10.1109/ICTMIM65579.2025.10988304 a07 (SCI)

3.**Lurdhumary J**, Alagarraja K et al..High-Performance Biodegradable Films from Bamboo Derived Cellulose Nanofibers and Silk Fibroin : Engineering Sustainable Polymer Composites JOURNAL OF POLYMER & COMPOSITES Volume 13 Issue 4 Page 256-265 a07 DOI 10.37591/JOPC.v13i04.218008 Published 2025 a07 (SCI)

4.**Lurdhumary J** , Mishra, PR et al..Biochar-Filled Soy Protein Composites: Evaluating Thermal and Mechanical Properties for Sustainable Polymer Applications JOURNAL OF POLYMER & COMPOSITES ,Volume 13,Issue 3, Page 60-71 a07 (SCI)

5.**Lurdhumary J** , Sailesh, A et al..Mechanical and Physicochemical Characteristics of Nano-Hydroxyapatite Polymer Composites JOURNAL OF POLYMER & COMPOSITES, Volume 13, Issue 2 ,Page 115-125 a07 (SCI)

International Journals (SCOPUS)

1. **Lurdhumary J** Kumar Vangeri, S et al.. Green supply chain management in eco-friendly sustainable manufacturing industries Publication date 2024 ,Environmental applications of carbon-based materials, Pages :253-287

2. **Lurdhumary J** ,Mohanraj Gopal et al.. Energy Harvesting and Smart Highways for Sustainable Transportation Infrastructure: Revolutionizing Roads Using Nanotechnology ,Publication date

2024,Principles and Applications in Speed Sensing and Energy Harvesting for Smart Roads,Pages:136-165

3. **Lurdhumary J** Digital Notice Board on “Design of Multiband Micro strip antenna for 5G wireless communication” in International journal of Innovative Research in Technology” on Volume 7 Issue 11 April 2021.

International Conference(INDEXED IN SCOPUS)

1. K Sudhakar, **Lurdhumary J** et al..Enhancing urban IoT temperature sensing accuracy through machine learning-driven dynamic ventilation,Publication date-2024/11/1,Journal AIP Conference Proceedings

2. **Lurdhumary J** Digital Notice Board on “IOT in International journal of Innovative Research in Technology” on Volume 7 Issue 11 April 2021.

4. **Lurdhumary J** , Venkateswaran Artificial Intelligence assisted Enhanced Thermal and Electrical Performance of Epoxy–GO–MgO Nanocomposites via Hybrid Filler Integration N2,conference

Online Courses details

Sl. No	Title	Certification Authority	Month/Year
1	Education Leadership	NPTEL	Aug/2025
2	Entrepreneurship	NPTEL	Aug/2025
3.	OBE and Accreditation	NPTEL	April/2025
4.	Technical Communication for Engineers	NPTEL	Aug/2024