

1. Name	: Dr. N.V.Lakshmi
2. Designation	: Assistant Professor
3. Qualification	: M.Sc., PhD.,
4. Mobile number	: 9486381183
5. E-mail id	: lakshminv@auxiliumcollege.edu.in
6. Teaching Experience	: 6 Years
7. Area of specialization	: Nanotechnology
8. Research Experience and Guidance	: 10 Years
9. No. of Papers Published	: 8
10. No. of Papers Presented in the National/ International/Seminars/Workshops/Conferences	: 4
11. No. of Seminars/Workshops/Conferences organized:	8
12. No. of Books Published/Edited/Co-edited	: 1
13. Responsibilities held	: Member of Research Ethics, Publication and IPR Member of Career Guidance and Placement Cell Coordinator for Extension Activities, Innovation Inside DQAC Member
14. Current Responsibilities	: Member of Career Guidance and Placement Cell Coordinator for Extension Activities
15. Membership in professional bodies	: Nature Science Foundation
16. Honours & awards received	: Got Best Outgoing student Award in Branch III Physics. Presented project on “Role of Micronutrients on some Greens” in

tenth District level National children's Science Congress.

17. Any Other (Descriptive)

Instruments Handled

Impedance Analyzer
Electrochemical Workstation
UV-Vis-NIR Spectrophotometer
Optical Microscope
Vickers Micro hardness

Patents

- ◆ **Filed a Indian Patent on Bioactive Nanocomposite Bandage for Self –Healing Antimicrobial Bandage, dated 31st Jan 2025**

Publications in Journals

1. **Lakshmi.N.V**, Pankaj Tambe and Biswajit Panda. 'Surface modified iron oxide (Fe₃O₄) nanosheets reinforced PVDF nanocomposites: influence on morphology, thermal and magnetic properties', *Plastics, Rubber and Composites*, ISSN: 1743-2898, August-2022, Vol. 51 Issue 4, pp. 205-216
2. **Lakshmi.N.V**, Pankaj Tambe and Niroj Kumar Sahu. 'Giant permittivity of three phase polymer nanocomposites obtained by modifying hybrid nanofiller with polyvinylpyrrolidone', *Composite Interface*, ISSN: 1568-5543, June-2017, Vol. 25 Issue 1, pp. 47-67
3. **Lakshmi.N.V** and Pankaj Tambe 'EMI shielding effectiveness of graphene decorated with graphene quantum dots and silver nanoparticles reinforced PVDF nanocomposites', 2017, *Composite Interface*. Taylor & Francis, ISSN: 1568-5543, March-2017, Vol.24 Issue 9, pp. 861-882
4. **Lakshmi.N.V**, Karthikeyan.S, Jeeva.P.A, Paramshivam.M and Narayanan.S 'The influence of an eco-friendly antibiotic as anti-scalant and inhibitor for steel in gypsum solution and brine water', *Desalination and Water Treatment*. Taylor & Francis, ISSN: 1944-3986, July-2014, Vol. 56 Issue 3, pp.839-847
5. **Lakshmi.N.V**, Karthikeyan.S and Arivazhagan.N. 'The Corrosion Inhibition of Aluminium In 3.5% NaCl by Diisopropyl Thiourea', *International Journal of*

ChemTech Research. 5, April-2013. ISSN: 0974-4290, 2014, Vol. 5 Issue 4, pp. 1959-1963

6. **Lakshmi.N.V**, Karthikeyan.S and Jeeva.P.A ‘Corrosion and hydrogen corrosion permeation investigations of Stainless steel 304 in acidic solutions’. Journal of Corrosion Science and engineering .ISSN: 1466-8858, January-2014, Vol.17
7. **Lakshmi.N.V**, Karthikeyan.S and Arivazhagan.N ‘Controlled dissolution of Aluminum 2024 in acidic medium’, Journal of Corrosion Science and engineering. ISSN: 1466-8858, January-2014, Vol.17
8. **Lakshmi.N.V**, Karthikeyan.S and Arivazhagan.N Azithromycin: ‘A Potential Corrosion inhibitor for Aluminum 2024 in acidic medium’, Journal of Corrosion Science and engineering. ISSN: 1466-8858, February- 2014, Vol.17

Leadership Experience

- ◆ **Held the role of Organizing Secretary** for the **National Level Ignition Fiesta on Youth Environmental Stewardship (YES)**, held on 22 & 23 February 2024 in collaboration with the Xavier Board of Higher Education in India
- ◆ **Served as Coordinator for Young Student Scientist Programme (YSSP- DEC- 2023)** catalyzed by Tamilnadu State council for science and Technology, Chennai
- ◆ Contributed as a **member of Research Ethics, Publication and IPR Committee** at Auxilium College(Autonomous), Vellore
- ◆ Played an integral role as a **member of Career Guidance and Placement Cell** at Auxilium College(Autonomous), Vellore

FDP's/ Seminars/ Workshops/Webinars

- ◆ Participated in “A Five Day Online International Faculty Development’ Program on Sustainable Materials and advanced research technologies (SMART-205) from 18th to 23rd Sep 2025 jointly organized by Department of Physics, Sacred Heart College & Scott Christian College, Nagercoil.
- ◆ Participated in “A Five Day Online International Faculty Development Program on “Role of Physics in the Development of Advanced Materials” organized by the Department of Physics, NPSBCET from 25th August, 2025 to 29th August, 2025.

- ◆ Completed Faculty Development Program on Manuscript Drafting, Patent Development and Filing using AI and Global IP Frameworks organized by Eudoxia Research University, ERC-USA and Eudoxia Research Centre, ERC-India from 7th July to 14th July 2025.
- ◆ Participated in “A Five-Day National Level Online FDP on Beyond Boundaries: Driving Innovation in Research” from 26.12.2024 to 30.12.2024 Organized by Committee for Research Ethics, Publication & IPR, Auxilium College,(Autonomous), Gandhi Nagar, Vellore in Collaboration with North East Institute of Social Sciences & Research, Dimapur, Nagaland.
- ◆ Participated in International Conference on Advanced Materials and Applications, Auxilium College (Autonomous) Vellore 12th Sep 2024
- ◆ IP Awareness/ Training Program under National Intellectual Property Awareness Mission at Auxilium College on 16th Sep 2023.
- ◆ Participated in National Webinar on “Publish and Progress” Auxilium College (Autonomous) Vellore 26th August 2023.
- ◆ Participated in IP Awareness/ Training Program under Intellectual Property Awareness Mission 20th Feb 2023.
- ◆ Participated in National Webinar on Applications of Physics in Medicine, Auxilium College (Autonomous) Vellore, 22nd August 2023.
- ◆ Participated in 2nd National Conference on Advanced Materials and Applications, Auxilium College (Autonomous) Vellore 13th – 14th October 2022.
- ◆ Participated in IP Awareness/ Training Program under Intellectual Property Awareness Mission 16th April 2022.
- ◆ Participated in “National level FDP on Research Trends in Physics & Electronics” LFDC & Auxilium College (Autonomous) Vellore 27th January 2021 to 1st February 2021.
- ◆ Participated in International Webinar on “Sensors and Applications” Auxilium College (Autonomous) Vellore 22nd – 23rd July 2021.
- ◆ Participated in Workshop on “Documentation and Data Management” Auxilium College (Autonomous) Vellore 29th October 2021.
- ◆ Participated in “National Webinar on National Educational Policy 2020 with focus on

Technology” Auxilium College (Autonomous) Vellore 12th October 2020

- ◆ Participated in One day workshop on ‘Nanomaterials and Thin Film based Applications’ at VIT university, Vellore. 18th March 2016
- ◆ Participated in One day workshop on ‘Scientific writing’ at VIT university, Vellore. 2017
- ◆ Participated in National workshop on “Preparation and Characterization of Nanomaterials”. University of Madras, Chennai. 2011
- ◆ Participated in Summer Training Program on Nanoscience & Nanotechnology conducted by University of Madras jointly with Science City. 2011
- ◆ Participated in National conference on Nanoscience & Nanotechnology, University of Madras, Chennai. 14th -16th March 2011