

Book Publications

1. A Chapter “Synthesis and Charecterization of PS/TiO₂ nano composites” in Futuristic trends in chemical, material science and nano technology, Mrs. R.Revathi, 2024, e - ISBN: 978-93-5747-459-7.
2. A Chapter “Studies on Ag-Cu Bimetal nanoparticles using tulasi leaf extract” in Novel Materials for Emerging Applications, R.Revathi, 2021, ISBN: 978-93-91373-10-8
3. A Lab Manual Book “Biomedical Electronics and Instrumentation lab , Mrs.R.Revathi, 2022, ISBN : 978-81-960903-9-5

Presentations in Conference

1. Presented a paper entitled Unlocking the power of Murraya Koenigii – Green synthesis of Copper Nano powders in the SERB Sponsored National Conference on Recent Advances in Materials Science Research on 14.02.2024 organized by BON Secours College for Women, Thanjavur.
2. Presented a paper entitled Eco Friendly Synthesis of Copper oxide Nanoparticles using Neem Leaf Extract in the National Conference on Recent Trends in Advancements of Science and Technology on 30, 31- August 2024 organized by PSG College of Arts and Science College.
3. Presented a paper entitled Photodegradation of Polystyrene/Zno Nano Composite Films Under UV Irradiation in Virtual Global Congress on Sustainable Growth & Development - 2023 Health and Life Sciences (Gcsgd2023-Hls) on 15 December 2023 organized by University Geomatika Malaysia.
4. Presented a paper entitled Studies of physical properties on PS/ZnO nanocomposites. in an International Conference on LASER’23 between 14 - 16 September 2023 organized Department of Physics-Periyar University, Salem and Indian Spectro physics Association.
5. Presented a paper entitled Role of detergent on the surface of water and effect in cleaning activity in an ICSSR Sponsored one day National Conference on India transit to decarbonization – a future perspective on 15 September 2023 organized by Department of Chemistry, Sri Ramakrishna Arts and Science College, Coimbatore.
6. Presented a paper entitled Physical Properties of PS/BaTiO₃ Nanocomposites in an International Conference on Influence of Chemistry in the transition towards green economy on 1.3.2023 & 2.3.2023 organized by PG & Research department of Chemistry, PSGRKCW, Coimbatore.
7. Presented a poster entitled Biophysical characterization of plant mediated copper oxide nano particle in “A Two-day International Virtual Conference on Advanced Materials for Emerging

Technologies (ICAMET-21)” organized by Research Faculty Enrichment Council (RFEC), Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore -641 020 on 26-Apr-21 and 27-Apr-21.

8. Green Synthesis of Copper Nanoparticles from Tulasi (*Ocimum Tenuiflorum*) Leaf aqueous extract and its Antimicrobial Activity, International Conference on Nanoscience and Nanotechnology, Department of Physics and Nanotechnology, SRM IST, India, 1-3 February 2021.
9. Synthesis and Characterization of Copper Sulphate Doped Culm Leaves Extract, 24th National seminar on crystal growth and applications, Department of Physics, Periyar University, Salem, 3-5 February 2020.
10. Structural and Optical Properties of Thermal Evaporated Indium Telluride Thin films, National Conference on Emerging materials for sustainable future, Department of Physics, PSG College of Technology, Coimbatore, 9-Feb-18 to 10-Feb-18.
11. Structural and Optical Properties of Thermal Evaporated Indium Telluride Thin Films, National Workshop on Luminescent Materials (NWLM 2016) organized by GRD Centre for Materials Research, PSG College of Technology, Coimbatore, 26-Feb-16.

Participation in Conference

International

1. International Conference on Innovative Horizons In Material Research: Growth, Characterization and Applications (ICIHMR-2024) organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on December 20th & 21st, 2024.

National

1. International Conference on Functional Material and Nanotechnology (ICFMN- 2K22) organized by Department of Physics, Nehru Institute of Technology, Coimbatore in collaboration with Indian Association for Crystal Growth on 20 & 21 July 2022.
2. International Conference on Nanoscience and Nanotechnology, Department of Physics and Nanotechnology, SRM IST, India, 1-3 Feb-21.
3. 24th National seminar on crystal growth and applications, Department of Physics, Periyar University, Salem, 3-5 Feb-20.
4. National conference on Nanomaterials for energy and medical applications, SNS college of Technology, Coimbatore, 20th Nov-19.
5. National conference on emerging materials for sustainable future, PSG College of Technology, Coimbatore, 9-Feb-18 to 10-Feb-18.
6. National conference on emerging education models for 21st century learner, Dr.NGP Arts and Science College-Coimbatore. 1-oct-15.

Participation in Seminar

1. Advanced materials and solar energy, KPR Institute of Engineering and Technology-Coimbatore, 28-oct-15.
2. International Seminar on Advanced Seminar on Advanced Materials for Sustainable development and energy applications organized by Department of Physics, SRM Institute of Science and Technology, 17-Feb-23.

Participation in Workshop

1. Problem Solving in Quantum Mechanics workshop at SRMV CAS Coimbatore, 29th September 2024.
2. One day National Workshop sponsored by IARP, on Beneficial applications of radiation technology and Indian nuclear energy programme on 31.8.2023 organized by Department of Medical Physics, Dr NGPASC.
3. One day workshop on Science Communication, PSGR Krishnammal college for women, Coimbatore, 20th December 2019.
4. One day workshop on Rural immersion – Community Engagement, Dr. N. G. P. Arts and Science college, Coimbatore, 21st September 2019.
5. Shock waves in science, engineering, and medicine, Kumara guru College of Technology, Coimbatore, 6-July-17 to 7-July-17.
6. Theoretical and experimental physics, PSG College of technology during 30- Dec-15.

Participation in Orientation Programme / Short Term Courses

1. Agnirva Space Internship Programme, Jan 14 2025
2. Online Course on Introduction to Artificial Intelligence , September 2024.
3. Online Course on Remote Sensing and Digital Image Analysis , 27 August – 20 September 2024.
4. Polymer Process Engineering, NPTEL –OnlineCertification course, August – October 2024.
5. Food Packaging technology, NPTEL –OnlineCertification course, August – October 2023.
6. A Short-term course on “Nanomaterials for clean and sustainable environment” organized by PG & Research department of Chemistry, PSGR Krishnammal College for Women, from 17.7.23-22.7.23.
7. UGC-Approved Short-term Professional Development Programme on ‘Implementation of NEP-2020 for University and obtained 'A+' Grade.
8. Solar photovoltaics fundamentals, Technology and Applications, NPTEL, 2020-21.
9. Nanotechnology and Nano sensor’s part 1, Online course through Course era, September 2020.

10. One-week Online course “Non -linear Dynamics – An Introduction”, School of Physics, Bharathidasan University, Trichy, July 2020.
11. Selection of nanomaterials for energy harvesting and storage application, NPTEL –Online Certification course, July-August 2019.

Participation in Faculty Development Programme

1. Polymer Process Engineering, NPTEL –Online Certification course, August – October 2024.
2. Food Packaging Technology, NPTEL- AICTE FDP, Aug – Oct 2023.
3. Five days FDP on “Empowering education for innovation – A NEP Perspective during 30 June – 4 July 2023, organized by Center for Professional Development, Dr NGP Arts and Science College.
4. One Day Workshop on Outcome Based Education (OBE) organized by Dr. N.G.P Arts and Science College, Coimbatore in association with ipsr solutions limited on 04 March 2023.
5. One week FDP on “Spectra of Physics II” organized by the Department of Physics, PSGR Krishnammal College for Women, from 26. 9.2022 - 01.10.2022.
6. Seven-day online faculty programme on Research methodology and pedagogy for tertiary education, Dr. N.G.P. Arts and Science College, Coimbatore, 15-21-June-21.
7. Teqip III sponsored One-week e-FDP on “Materials for Semiconductor Devices and PV Modules”, organized by CoE in Advanced Materials Research, IEEE PES-SSIT, Department of Electrical and Electronics Engineering in association with FET MJP, Rohilkhand University, Bareilly, U.P. from 8th -13th March 2021.
8. Seven-day faculty programme on NAAC revised accreditation framework & OBE assessment methodology, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 2-June-19.
9. Selection of nanomaterials for energy harvesting and storage application, NPTEL- AICTE FDP, July-Aug-2019.
10. Quality initiatives in higher education, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
11. Faculty development programme on engineering materials and its applications, Dr. N.G.P. Institute of Technology, Coimbatore, 11-Jan-18.
12. Infrared spectroscopy for pollution monitoring, NPTEL- AICTE FDP, July - Sep-18.

Member in BoS

Board of Studies, Department of Physics, Department of Physics, Dr. N. G. P. Arts and Science college, Coimbatore, 2019 -.till date.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Society for Technical Education	Lifetime	-
All India Council for Technical Skill Development	Lifetime	-
Einstein Research Academy (ERA)	Renewable	

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Oral Presentation award	University Geomatika Malaysia.	December 2023
Best Paper for Poster Presentation award	Periyar University, Salem	February 2020
Best Mentor Award	Dr. N. G. P. Arts and Science college, Coimbatore.	2019-2020