

NIRMALA COLLEGE FOR WOMEN (AUTONOMOUS)

COIMBATORE

STAFF PROFILE

NAME : R. Leethiyal
DESIGNATION : Assistant Professor
DEPARTMENT : Physics
QUALIFICATION : M.Sc., M.Phil., (Ph.D)
EXPERIENCE : 9 Years
AREAS OF SPECIALIZATION : Nano Technology
E-MAIL : leethiyalrajan@gmail.com
ACADEMIC QUALIFICATIONS :

DEGREE	YEAR OF COMPLETION	NAME OF THE INSTITUTION	CLASS
Ph. D (Physics)	2021 - Till	Sri Ramakrishna Mission Vidyalaya College of Arts and Science.	Ongoing
M.Phil (Physics)	2017-2018	Government Arts college, Coimbatore.	Completed with Highly Commented
M.Sc (Physics)	2014-2016	Government Arts college, Coimbatore.	I St Class with Distinction
B.Sc (Physics)	2011-2014	PSGR Krishnammal college for women, Coimbatore.	I St Class with Distinction
HSC	2009-2011	Ranganathapuram Girls Higher Secondary School, Coimbatore.	I St Class
SSLC	2008-2009	Ranganathapuram Girls Higher Secondary School, Coimbatore.	I St Class with Distinction

ADDITIONAL QUALIFICATIONS:

DIPLOMA/ VOCATIONAL/ CERTIFICATION	AREA OF SPECIALIZATION	NAME OF THE INSTITUTION/ UNIVERSITY/ AGENCY	YEAR
MSW	General	Tamilnadu Open University	2024 – 2026 (Ongoing)

RESEARCH PUBLICATIONS:**INTERNATIONAL:**

- [1] Materials Today: Proceedings
- [2] Journal of Inorganic and Organometallic Polymers and Materials
- [3] International Journal for Multidisciplinary Research

PRESENTATIONS IN CONFERENCE:**INTERNATIONAL:**

- [1] **Conference Title** : 5TH International Conference on Nanoscience and Nanotechnology.
Paper Title : Hydrothermal – assisted Biosynthesis of hydroxyapatite Nano particles using Acalypha Indica leaf Extract for antibacterial activity
Author and Co-Authors name: R. Leethiyal and Dr. I. Reeta Mary
- [2] **Conference Title:** International Conference on Advanced materials for Technological Applications
Paper Title: Self – Assembly of Nanostructured Hydroxyapatite Spheres for Photodegradation of Methylene Blue Dye
Author and Co-Authors name: R. Leethiyal and Dr. I. Reeta Mary
- [3] **Conference Title:** International Conference on Women’s Equality, Protection and Empowerment (SHEROES FEST 2024), ISBN 978-81-969743-6-7
Paper Title: Plant Mediated Synthesis of TiO₂ Nanoparticles for Antibacterial and Photocatalytic Activity
Author and Co-Authors name: R. Leethiyal and Dr. S. Gopi
- [4] **Conference Title:** International Conference Smart NextGen Nanomaterials for Sustainable Development of Energy and Environment - An Interdisciplinary Approach (ICSSE-2024), ISBN - 978-81-971000-3-1
Paper Title: Sustainable TiO₂ Nanoparticles: Empowering Women through

Cultivation and Processing of *Justicia Adhatoda*

Author and Co-Authors name: R. Leethiyal and Dr. S. Gopi

[5] **Conference Title:** International Conference on Advanced Functional Materials and Devices, (2024), ISBN - 978-93-93518-25-5.

Paper Title: Green synthesis of Titanium dioxide Nanoparticles for Antibacterial and Photocatalytic Activity using *Justicia Adhatoda* Leaf and *Cissus Quadrangularis* Extract

NATIONAL:

[1] National Conference on Emerging Materials and Methods for Advanced Applications

Paper Title : Novel Hydroxyapatite Nested Bundles Facile Solvothermal Synthesis, Characterization and Growth Mechanism.

Author and Co-Authors name: R. Leethiyal and Dr. I. Reeta Mary

PARTICIPATION IN CONFERENCES:

[1] International Conference on Advanced materials for Technological Applications

[2] International Conference on Nanoscience and Nanotechnology

[3] International Conference “Smart NextGen Nanomaterials for Sustainable Development of Energy and Environment - An Interdisciplinary Approach (ICSSE-2024)”

[4] International Conference on Advanced Functional Materials and Devices 2024

[5] International Conference on Women’s Equality, Protection and Empowerment (SHEROES FEST 2024)

[6] National Conference on Emerging Materials and Methods for Advanced Applications

PARTICIPATION IN ORIENTATION PROGRAMME/ INDUCTION PROGRAMME/

SHORT TERM COURSES:

[1] Malaviya Mission Teacher Training Programme, NEP 2020 Orientation & Sensitization Programme, Central University of Kerala.

[2] Malaviya Mission Teacher Training Programme, MMTTC, Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha, Maharashtra.

PARTICIPATION IN FACULTY DEVELOPMENT PROGRAMMES:

[1] Research Paper Writing, Research Foundation of India

[2] Adapting to AI driven industry, Rajapalayam’s Raju’s College

[3] Innovative Teaching Strategies, Nirmala College for Women

- [4] NAAC Accreditation – Adapting to the Dynamic Landscape, Nirmala College for Women
- [5] Together we Achieve, Nirmala College for Women
- [6] AI Tools for Higher Education: Possibilities and Challenges, Nirmala College for Women
- [7] AI Tools for teaching, Nirmala College for Women

CONFERENCE/ SEMINAR/ WORKSHOP ORGANIZED:

- [1] Modern Trends in Optics and Communication Techniques, 2019
- [2] Nanoscience and its importance, 2020
- [3] Research Methodology, 2022
- [4] Ion beams in material processing and research opportunities, 2023
- [5] Exploring research opportunities abroad - A guide for young aspirants, 2024
- [6] Research and innovation: A Student's Perspective, 2025

INVITED SPEAKER/ SESSION CHAIR- CONFERENCE/ SEMINAR/ WORKSHOP:

- [1] Resource person - Guest lecture on “Basics of Electronics” – Sri Ranganathar institute of Polytechnic college, Coimbatore – 20/02/2020

BOOK PUBLICATIONS:

- [1] Home Appliance Working: A study Course Material
- [2] The Working of Home Appliances: MCQS for Quick Learning
- [3] A Textbook of Electronics