



SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)

Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution

Tiruchirappalli - 620 002

Name : Ms R.Nagalakshmi
Designation : Assistant Professor
Department : Physics
Qualification : M.Sc., M.Phil.,
Experience : **Teaching: 22** **Research: Nil**
Area of Specialization(s) : Spectroscopy
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Academic Qualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
M.Phil	Physics	St.Joseph'sCollege- Trichy	2002
M.Sc	Physics	Nehru Memorial College - Puthanampatti	2001
B.Sc	Physics	N.K.R Government College - Namakkal	1999

Research Publications (Indexed)

1.Quantum chemical calculations and molecular docking studies of 5-amino-3-(2,5-dimethoxyphenyl)-1-isonicotinoyl-2,3-dihydro-1H-pyrazole-4-carbonitrile, Zeitschrift Für Physikalische Chemie (2024). <https://doi.org/10.1515/zpch-2024-0750>.

2. Synthesis and spectroscopic characterization with topology analysis, drug-likeness (ADMET), and molecular docking of novel antitumor molecule 5-Amino-3-(4-hydroxy-3-methoxyphenyl)-1-isonicotinoyl-2,3-dihydro-1H-pyrazole-4-carbonitrile, Zeitschrift Fur Physikalische Chemie (2025). <https://doi.org/10.1515/zpch-2024-0735>

Presentations in Conference

1. International conference on Emerging Trends And Prospects in Nano Materials and applications (ETPNA-2022), 18th August 2022, P.K.R. Arts College For Women (Autonomous), Gobichettipalayam.
2. International conference on Crystal Growth and Spectroscopy, August (29-31), St Joseph's College, Trichy.
3. International Conference on Environmental Friendly Materials and Its Applications, November (3-4) 2022, Srinivasan College of Arts and Science, Perambalur.
4. International Conference on Recent Innovations in Materials Science and Spectroscopy (ICRIMS-2023), 10th January 2023, Jamal Mohamed College (Autonomous), Trichy.
5. 3rd International Symposium on Modeling of Crystal Growth Processes and Devices (MCGPD-23), March (6-8) 2023.
6. International Conference on Waste to Wealth for Water Treatment, E-Waste Recycling & Plastic Rejuvenation (ICWWRP – 2023), October (4-5) 2023, Thanthai Hans Rover College (Autonomous), Perambalur.
7. National Conference on Nanomaterials for Energy Harvesting & Storage Applications (NCNEA-2025), January (8-9) 2025, Arignar Anna Government Arts College, Musiri.

Participation in Conference

International

1. Participated in National Virtual Conference on “Novel Materials, Characterization and Applications” organized by Auxilium College (Autonomous) – Vellore.
2. Participated in Virtual Webinar on “Define and Design Your Destiny” organized by Shrimati Indira Gandhi College– Trichy.
3. Participated in Webinar on “Raman Spectroscopy – Instrumentation & Analysis” organized by ISAS Tamilnadu Chapter in association with Bhaktavatsalam Memorial College for Women- Chennai.
4. Participated in Webinar on “Preparation Strategies for UGC NET & TN SET” organized by CSIR/UGC Counseling Cell, The Standard Fireworks Rajaratnam College for Women (Autonomous)- Sivakasi.

5. Participated in National Level Three Days Online Faculty Development Program on “Role of Creative Thinking in Physical Science & Its Applications” organized by Srinivasan College of Arts and Science –Perambalure.
6. Participated in International Workshop on “Academic Writing: Ethical Issues” organized by Global Institute of Statistical Solutions (GISS)
7. Participated in Two Days Online Faculty Development Programme on “Recent Developments in Materials Science” organized by Srimad Andavan Arts and Science College (Autonomous)-Trichy.
8. Participated in Six Days National Level Virtual Faculty Enrichment Program on “Aligning with the New Educational Era” organized by Primax Foundation- Bengaluru.
9. Participated in Virtual Faculty Enrichment program on “Introduction to Cloud Computing” organized by Shrimati Indira Gandhi College- Trichy.
10. Participated in “Innovative Pedagogies of the Future in Teaching Learning Process” organized by Shrimati Indira Gandhi College- Trichy sponsored by Youth Development, Ministry of Youth Affairs and Sports, Government of India, Sriperumbudur.
11. Participated in international conference on Recent Advances In Materials Science organized by National College (Autonomous), Trichy and AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur, sponsored by TNSCST.

Participation in Faculty Development Programme

1. Participated five day online FDP on “Theoretical & Experimental physics” organized by School of Advanced Sciences(SAS) and G.T.S. Arts College,Dindigul on from 29.05.2023 to 02.06.2023.
2. Participated Two Days National Conference on “Recent Trends in Material Science and its Applications”.
3. Participated in NEP 2020 Orientation and Sensitization program under Malaviya Mission Teacher training centre, Bharathidasan University from 08.04.2024 to 17.04.2024

Patents

1. Designed a patent on “Nanomaterial synthesis and purification device” on 18th February 2025.
2. Nano-embedded drug discovery system for targeted therapeutic applications.