

R.Geetha M.Sc., M.Phil., SET, (Ph.D)

Assistant Professor

Department of Physics

Jamal Mohamed College

Tiruchirappalli – 620020

E-Mail: geetha1188@gmail.com

Mobile : 8220838294

EDUCATIONAL PROFILE:

S.No	Degree	University/ Institution	Year of passing	Subject	Grade / Percentage
1	Ph.D	Seethalakshmi Ramaswami College, Tiruchirappalli	Thesis Submitted	Physics	
2	SET	Mother Teresa Women's University, Kodaikanal	2016	Physics	
3	M.Phil	Seethalakshmi Ramaswami College, Tiruchirappalli	2012	Physics	First class - Distinction with D++
4	M.Sc	Seethalakshmi Ramaswami College, Tiruchirappalli	2011	Physics	Distinction with D
5	B.Sc	Seethalakshmi Ramaswami College, Tiruchirappalli	2009	Physics	First class - Distinction with D+
6	HSC	The Girls Higher Secondary School, Lalgudi	2006		82%
7	SSLC	The Girls Higher Secondary School, Lalgudi	2004		88%

WORKING EXPERIENCE: 12 YEARS

Institutions	Position	Period	Years
Seethalakshmi Ramaswami College, Tiruchirappalli	Lecturer	2012 – 2017	5 Years
	Assistant Professor	2017 – 2023	6 Years
Jamal Mohamed College Tiruchirappalli	Assistant Professor	2023 – Till date	1 Year

SUBJECTS BEING HANDLED:

PG: Mathematical Physics, Quantum Mechanics, Nano Science and technology, Numerical methods and Programming in C++

UG: Digital Electronics, Solid State Physics, Mechanics and Special theory of Relativity, Allied and Applied Physics

AREA OF SPECIALISATION:

Ultrasonics, Spectroscopy, Electronics, Computational Calculations

ACADEMIC RESPONSIBILITIES:

- Acted as Evaluator for Central Valuation for Bharathidasan University, Tiruchirappalli from 2013 onwards.
- Laboratory teaching and skilled assistant for final year PG (5 years)
- M.Sc project: 17– Completed

RESOURCE PERSON:

- Delivered a lecture on NET/SET carrier counselling programme “*Gate Way to NET/SET*” on 15.02.2021 organized by PG and Research Department of Physics, Seethalakshmi Ramaswami College, Tiruchirappalli.
- Social Outreach Programme entitled “*Practical Skill Development Programme*” at Govt. Hr Sec School, Sirugambur from 2015–2018.
- “*Practical Skill Development Programme*” at Government Girls Higher Secondary School, Town Hall, Tiruchirappalli. (2019–2020)

AWARDS AND RECOGNITION:

- *Outstanding Leadership Award* – National Astronomy & Science Olympiad (NASO)
- *International Best Researcher Award* – ISSN International Research Awards and Congress 2024 (IIRAC 24)

DETAILS OF PAPERS PRESENTATION ON CONFERENCES / SEMINARS / WORKSHOPS:

1. Presented a paper entitled “**Noise pollution in wards of a hospital in Tiruchirappalli city**” in National Symposium on Acoustics held at K.S.R Institute for Engineering and Technology, Tiruchengode during 05-07 December 2012.
2. Presented a paper entitled “**Ultrasonic studies and DFT investigation of an Electrolyte in non-aqueous medium at 308.15K**” in International Conference on Recent Trends in Advanced Functional Materials ICRTAFM-2K20 held at Idhaya Collge, Kumbakonam on 22.02.2020.
3. Presented a paper entitled “**Thermo-acoustic parameters analysis of ternary solutions using ultrasonic technique at 318.15K**” in a international conference on “Emerging trends and Prospects in Nano Materials and applications (ETPNA – 2022)” on 18.08.2022 at P.K.R Arts College for Women (Autonomous), Gobichettipalayam.

4. Presented a paper entitled “**Ultrasonic, transport and vibrational frequency analysis of non-aqueous peptide + electrolyte solutions**” in the Fourth International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2022) held on 8th - 9th December 2022 at the Department of Mechanical Engineering, Velalar College of Engineering and Technology, Erode, Tamil Nadu, India.
5. Presented a paper entitled “**Antimicrobial analysis of ternary potassium salts solutions**” in a international conference on “Research Trends, Strategies and Technical Advancements in Biological and Biomedical Sciences for Sustainability (RTSTA’22)” on 14th and 15th December 2022 at Research Department of Zoology, Seethalakshmi Ramaswami College, Tiruchirappalli.
6. Presented a paper entitled “**Ultrasonic Investigation of molecular interaction in ternary tripotassium 2-hydroxypropane-1,2,3-tricarboxylate hydrate solution at different temperatures**” in the International virtual conference on “Materials science and Applications (ICMSA’23)” held 7th and 8th February 2023 at PG & Research Department of Physics, Seethalakshmi Ramaswami College, Tiruchirappalli.

DETAILS OF PUBLICATIONS IN WoS/SCOPUS/ UGC-CARE:

1. **R.Padmavathy, R.Geetha**, Ultrasonic studies and DFT investigation of an electrolyte in non-aqueous medium at 308.15 K, **Aegaeum Journal**, Volume 8, Issue 3, 2020
2. **R.Geetha, R.Padmavathy**, Ultrasonic, transport and vibrational frequency analysis of non-aqueous peptide + electrolyte solutions, **Elsevier’s Materials Today: Proceedings**, doi.org/10.1016/j.matpr.2023.05.568
3. **R.Geetha, R.Padmavathy, T.Malini, N.Radha**, Thermodynamic, vibrational spectroscopic and antimicrobial study of a peptide with an electrolyte in non-aqueous medium, **Bulgarian Journal of Physics**, Volume. 50 (2023) 159–167
4. **R.Geetha, R.Padmavathy**, Thermoacoustic, Electrochemical, Solvation and Antimicrobial Analysis of Ternary Potassium Salts Solutions at 308.15K, **International Journal of Current Research and Review**, Volume 15, Issue 02, January 2023.
5. **R.Geetha, R.Padmavathy, R.Raj Muhamed**, Molecular interactions in ternary system of K-contin and (2-Aminoacetamido)acetic acid at various temperatures – ultrasonic and viscometric analysis, **SN Applied Sciences** (2023) 5:383.

WORKSHOP & FACULTY DEVELOPMENT PROGRAMME ATTENDED:

1. Participated in the 5-day National- level training Programme on “Thesis Writing: From Coppert Strip to Gold Bar” conducted by Centre for technical and academic writing, Bharathidasan University from 30.10.2017 to 03.11.2017.
2. Participated in two day hands on training in “Computational Genomics” organized by Department of Biotechnology and centre for stem cell and cancer genomics AMI Bioscience, Coimbatore on 4th and 5th September 2017 at Seethalakshmi Ramaswami College, Tiruchirappalli.

3. Attended a One day state level workshop on “Computational Studies and Molecular Docking” held on 29th February 2020 at Arignar Anna Government Arts College, Musiri.
4. Attended online workshop on “Gaussian Software” during 18-26 march 2023 conducted by SIAS Research Forum, Calicut University, Kerala.
5. Participated in the One Week Online Faculty Development Programme on Relevance of Ancient Indian Knowledge in the Contemporary Higher Education Scenario jointly organized by the Internal Quality Assurance Cell of V.V.Vannaiaperumal College for Women, Virudhunagar and Jamal Mohamed College, Tiruchirappalli from 16.11.2023 to 22.11.2023.
6. Served as a member of the organising committee during the International Conference on Recent Trends in Materials Science (ICRTMS- 2024) on 04.01.2024 by PG & Research Department of Physics, Jamal Mohamed College, Tiruchirappalli and Indian SpectroPhysics Association (ISPA).
7. Participated in A One Week Faculty Development Programme on Road Map for Intellectual Property Rights organized by IPRC, IQAC and IIC of Jamal Mohamed College, Tiruchirappalli from 08.01.2024 to 12.01.2024.
8. Completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) Of University Grants Commission(UGC), organized by UGC- Malaviya Mission Teacher Training Centre(UGC-MMTTC), Bharathidasan University from 19.02.2024 to 28.02.2024.

Date: 15.07.2024

Place: Tiruchirappalli

Ms.R.GEETHA