

Faculty Profile

1. Name of the faculty : Dr. Latha Rani N.
2. Name of the Department : Physics department
3. Present position : Asst. Professor
4. Educational qualifications : B. Sc., M. Sc., Ph. D
5. E-mail : latharani.phy@drait.edu.in
6. Date of Joining the Institute : 15.07.2025
7. Total teaching experience : 6 Y
8. Specialization : Condensed Matter Physics
9. Courses taught : M.Sc., Physics: (Condensed Matter Physics, Mathematical Methods of Physics, Atomic and Molecular Physics, Computational Physics); Applied Physics, Engg. Physics
10. Research experience : 5 Years
11. Resource Person:

Academic Year	Topic	Responsibility Held	Venue/Host Institute
May, 2023	Itechnary – 2023	Judged a National Level Competition	Presented by Under Graduate Students,, at Department of Physics, MMK & SDM Mahila Mahavidyalaya, Mysuru
July, 2019	X-ray Crystallography	Delivered a guest lecture to Under-Graduate Students, at Department of Physics as a part of Alumini Talk	MMK & SDM Mahila Mahavidyalaya, Mysuru
Dec., 2016	Typesetting in LaTeX	Delivered a guest lecture to Post-Graduate Students, at Department of Post Graduate Studies in Physics	Mahrani Science College for Women, Mysuru.

12. Paper Participation/Published in conferences, symposia, seminars and workshops:
International, national, state or university level.

Academic Year	Title of the Conference	Paper Title	Venue and Date of Conference
2023-24	International Conference on Advanced Materials and Their Applications, ICAMA – 2023	Synthesis, Structural Elucidation Using Single Crystal XRD and Hirshfeld Surface Analysis of N-(2-amino-phenyl)-2-methyl-benzamide	PG and Research, Department of Chemistry, V.O.Chidambaram College, Thoothukudi, Tamilnadu, India., during December 2023.
2018-19	International Conference on Recent Advances in Material Science (ICRAM – 2019)),	Synthesis, X-ray Crystal Structure Study, Hirshfeld Surface and Biological Activity of N-(2-amino-phenyl)-2-methyl-benzamide	National College, Tiruchirappalli, during February 2019.
2018-19	Emerging Trends in Materials Science, ETMS – 2018	Structure and in vitro Antibacterial Activity of Ethyl 2-(4-methyl-2-oxo-chromen-7-yl)oxyacetate	K.L.E.'s S. Nijalingappa College, during October 2018
2017-18	24th Congress and General Assembly of the International Union of Crystallography,	Structure and in vitro antibacterial Activity of a Coumarin Derivative	HICC, Hyderabad, during August 2017.
2015-16	20th National Seminar on Crystal Growth and Applications (NSCGA– 2016)	Synthesis and Crystal Structure of N-cyclohexyl-N-(cyclohexylcarbamoyl)benzamide (CCB)	Bhabha Atomic Research Centre, Mumbai, during January 2016.
2014-15	National Symposium on X-ray Diffraction and Recent Advances in Crystallography (XDRAC–2015),	7-Fluoro-2-oxo-2H-chromene-3-carboxylic acid ethyl ester	Salem, Tamil Nadu, during February 2015.
2014-15	International Symposium on Chemical Biology– 2015),	Synthesis and Crystal Structure of N-cyclohexyl-N-(cyclohexylcarbamoyl)benzamide	University of Mysore, Mysuru, during February 2015.
2014-15	International Intradisciplinary Conference on the Frontiers of Crystallography (IICFC–2014),	Hirshfeld Surface Analysis and Crystal Structure of [2-Bromo-4-(4-fluoro-benzoyl)-phenoxy]-acetic acid ethyl ester	Marshal K.M. Cariappa College, Madikeri, Kodagu, during December 2014.

2014-15	Conference on Soft Materials (ICSM–2014),	Crystal Structure and Antibacterial Activity of 6-chloro-8-methyl-2-oxo-2H-chromene-3-carboxylic acid ethyl ester	MNIT, Jaipur, Rajasthan, during October 2014.
2013-14	International Symposium on Chemical Biology-Drug Discovery Programme–2014,	N-(2-(thiophene-2-yl)acetyl)isonicotinohydrazide (TAIH)	University of Mysore, Mysuru, during January 2014.

13. Publication of research papers: in peer reviewed journals, non-peer reviewed journals, conference proceedings, impact factors, citations, h-index. Numbers in SCOPUS.

Academic Year	Research Paper Title	Journal Name	Page Numbers	Impact Factor	National / International
2022	Synthesis, Characterization, Hirshfeld Surface Analysis, Crystal Structure and Molecular Modeling Studies of 1-(4-(Methoxy(phenyl)methyl)-2-methylphenoxy)butan-2-one Derivative as a Novel -Glucosidase Inhibitor	Crystals	1–17	2.4 ISSN 2073-4352; Q2	International
2019	Crystal Structure Study, Hirshfeld Surface Analysis and in vitro Antibacterial Activity of p-tolyl 4-fluorobenzoate	J. Applicable Chem.	293–301	1.291 from the Global Institute for Scientific Information (GISI) and 3.494 from SJIF Scientific Journal Impact Factor; Q2	International

2018.	Synthesis, Spectral Study and Crystal Structure Analysis of Two Coumarin Derivatives	J. Applicable Chem.	59–70	1.291 from the Global Institute for Scientific Information (GISI) and 3.494 from SJIF Scientific Journal Impact Factor; Q2	International
2017	Synthesis, spectral studies, crystal structure and molecular docking of ethyl 6-[(4-methyl-2-oxo-2H-chromen-7-yl)oxy]hexanoate	Chemical Data Collections	1–11	2.7 Q2	International
2016	Synthesis, X-Ray Crystal Structure Study, Hirshfeld Surface Analysis, and Biological Activity of N-(2-amino-phenyl)-2-methyl-benzamide	J. Applied Chemistry, Hindawi publication	1-7		International
2016	Structural Study and Antibacterial Activity of a Benzophenone Derivative:[2-Bromo-4-(2-chloro-benzoyl)-phenoxy]-acetic acid ethyl ester	J. Applicable Chem.	628–631	1.291 from the Global Institute for Scientific Information (GISI) and 3.494 from SJIF Scientific Journal Impact Factor; Q2	International
2016	Hirshfeld Surface Analysis and Crystal Structure of [2-Bromo-4-(4-fluoro-	Mol. Cryst. Liq. Cryst.	78–85	0.7 Q2	International

	benzoyl)- phenoxy]-acetic acid ethyl ester				
2016	Synthesis, characterization and anti-bacterial activity of 6-Chloro-8- methyl-2-oxo- 2H-chromene-3- carboxylic acid ethyl ester	Mol. Cryst. Liq. Cryst.	262–270	0.7 Q2	Internati onal
2016	Synthesis, Crystal Structure and Hirshfeld Study of 3,3'- dinitrobenzophenone	J. Applicable Chem.	231–241	1.291 from the Global Institute for Scientific Informatio n (GISI) and 3.494 from SJIF Scientific Journal Impact Factor; Q2	Internati onal
2015	Synthesis, Characterisation and Antibacterial Activity of 7-Fluoro-2-oxo- 2H-chromene- 3-carboxylic acid ethyl ester	Mol. Cryst. Liq. Cryst.	265–274	0.7 Q2	Internati onal
2015	Synthesis, Characterisation and Hirshfeld surface analysis of a 2- thiophene acetic acid derivative	Mol. Cryst. Liq. Cryst.	223–231	0.7 Q2	Internati onal
2014	Synthesis, Crystal Structure and Antibacterial Activity of 7-Methoxy-2-oxo- 2Hchromene- 3-carboxylic acid ethyl ester	J. of Single Molecule Research	60-66	--	Internati onal

14. Seminar organized:

Academic Year	Title of the workshop/FDP /Conference	Role	Date	Sponsoring Agency	No. of participants
2025-26	One-Day Seminar on Quantum Computing: Fundamentals and its Emerging Trends	Coordinator	12 th September, 2025	Dr. AIT	120

15. Professional Membership:

Sl. No	Name of the professional body	Fellow/Life Member
1.	The Indian Science Congress Association	Lifetime member
2.	Soft Matter Research Group. Malviya Institute of Technology, Jaipur	Lifetime member

16. Awards /recognitions received: International, National, State, University level.

Academic Years	Awards/Recognitions	Date and place	International/ National/ State/ University level
2012–2017	UGC Research Fellowship in Science for Meritorious Students (RFSMS),	2012 to 2017, University of Mysore, Mysuru	UGC

17. Details of Involvement in Academic and Administrative Committees:

Responsibilities outside the institution: as External member (LIC, BOS, BOE, NBA, UGC, NAAC etc.)

Sl. No	Academic Year	Nature of Activity
1.	2023-24	NAAC – Criteria 3 - coordinator
2.	2022-23	NAAC – Criteria 2 - coordinator