

Faculty Profile

Name : Dr N THILAGAVATHI
Designation : Assistant Professor
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Perundurai Taluk, Erode Dt- 638057
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Date of Joining in Collegiate Education : 17.08.2015
Date of Joining in the Present College : 21.12.2022
Academic Profile :



Degree	Institute/College	University	Period
B.Sc	Vellalar College for Women, Erode	Bharathiar University	1988-1991
M.Sc	PSGR Krishnammal College for Women, Coimbatore	Bharathiar University	1991-1993
M.Phil	Bharathiar University	Bharathiar University	1994
Ph.D	Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Periyanaickanpalayam	Bharathiar University	2010

Teaching Experience :

i) **Total** : 27 Years 08 Month
ii) **UG** : 27 Years 08 Month
iii) **PG** : 19 Years 03 Month

Name of the college	Position held	Period
Maharaja College for Women, Perundurai	Lecturer	06.02.1995 -31.07.1998
Maharaja College for Women, Perundurai	Lecturer and Head	01.07.1999-12.04.2008
Surya Engineering College, Erode	Assistant Professor and Head of Science and Humanities	02.06.2008-16.05.2015
Thiruvalluvar Government Arts College, Rasipuram	Assistant Professor	17.08.2015-20.12.2022
Chikkanna Government Arts College, Tirupur	Assistant Professor	21.12.2022-till date

Honors and Research Awards :

Field of Interest :

- i) **Teaching** :Physical Chemistry,Inorganic Chemistry,Analytical Chemistry
- ii) **Research** : Organometallic Chemistry
- iii) **Proficiency in instrumentation** :

Research Guidance

Guidance Number

:Bharathiar University- A4/365/02932C/2002

: Periyar University - PU/R/RD3/06147/2016

S. No	M.Phil/Ph.D	Name of the Student	Thesis Title	Completed/ongoing
1	M.Phil	C.Loganayaki	Synthesis and characterization of ruthenium (II) complexes containing beta diketone	Completed
2	M.Phil	V.Sumathi	Synthesis and characterization of nickel (II) and cobalt (II) complexes containing beta diketone	Completed
3	M.Phil	K.T.Anupama	Synthesis spectroscopic catalytic and antibacterial studies of ruthenium (II) complexes containing O N O/S donor ligands	Completed
4	M.Phil	Jaiji Ananth	Synthesis spectroscopic catalytic and antibacterial studies of ruthenium (II) complexes containing O N O donor ligands	Completed
5	M.Phil	A.Arputha Packia Selvan	Adsorption of maxilon red BN-L on commercial activated carbon in batch and fixed bed synthesis	Completed
6	M.Phil	R.Ashok	A study on hydrogeological aspects of groundwater used for drinking	Completed
7	M.Phil	R.Chandrasekaran	General 2haracterization of ground water and soil in a select area	Completed
8	M.Phil	M.Kirubanathan	General 2haracterization of ground water and study on fluoride pollution and its impacts	Completed

9	M.Phil	K.Ponnusamy	Physico chemical characterization of potable water in and around a town locality	Completed
10	M.Phil	P.Revathi	A study on the effectiveness of chemically enhanced primary treatment of water	Completed
11	M.Phil	C.Mohanraj	Adsorptive removal of mercury from an effluent water	Completed
12	M.Phil	P.Vanitha	An assessment of the quality of ground water in some villages of Perundurai taluk	Completed
13	M.Phil	D.Vanaja	Comparative study on ozonolysis and chlorination methods in purification of textile industry effluents	Completed
14	M.Phil	C.Raja	Removal of azodye cibacron navy P-2R-01 by an agricultural waste activated carbon	Completed
15	M.Phil	R. Radhika	An Efficient conversion of aldehyde to nitrile in the presence of diphenyl phosphoryl azide	Completed

Funded Projects :NIL

Membership in Professional Bodies : NIL

Research Publications :

 i) **Research Papers** : Annexure – I

 ii) **Book/Book Chapters** : NIL

 iii) **Patent** : NIL

National and International Conferences : Annexure – II

 i) **Participated** : **14**

 ii) **Paper Presented** : **02**

 iii) **Poster Presented**

Conference/Seminars Organized :

Workshop attended :

Resource Person/Invited Lectures :04

Faculty Development Programs Attended :

Course	University/Institute	Subject	Period
Orientation Course	Bharathiar University	General	16.12.2016 to 12.01.2017
Refresher Course	Bharathiar University	Chemistry	04. 07.2018 to 24.07.2018
Refresher Course	Bharathiar University	Chemistry	10. 12.2020 to 23.12.2020
Refresher Course	Gujarat University	Chemistry	21.06.2022 to 04.07.2022
Two-Day FDP	TANSCHHE with technical support of DOTE, TamilNadu	Design, Develop and Deliver online courses through MOODLE platform	29-30 May 2020
One week FDP	Jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD in collaboration with St.John's College, Agra	Development of careers in higher education in India in the 21 st century	23 rd June to 27 th June-2020
MHRD sponsored Five days FDP	jointly organized by UGC-HRDC Savitribai Phule Pune University and Shikshan Prasarak Sanstha's S.N.Arts, D.J.Malpani Commerce and B.N. Sarda Science college Sangamner,	Nanomaterials characterization techniques and results analysis methodology: ideas, innovatives and initiative	27-31 July, 2020
Seven days FDP	Department of Environmental sciences, Savitribai Phule Pune University, Pune under MHRD, PMMMNMTT scheme and UGC HRDC Savitribai Phule Pune University, Pune,	Earth & Environment Responses during COVID-19	11-17 July 2020

Academic Activities	:
i) Subject Handled	:Physical Chemistry, Inorganic Chemistry, General Chemistry, Allied Chemistry, Dye Chemistry, Water pollution and Chemistry Practicals (Allied, UG and PG)
ii) Class Advisor	:2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2021-2022 – All academic years III B.Sc Chemistry, 2023-2026 Batch
iii) Special Coaching	:Special coaching classes for slow learners
iv) Student Community Beneficial Activities	
v) Co-curricular and extra curricular activities:	
Professional Activities	:Annexure III
i) Reviewer	
ii) Board of Studies/UR	
iii) Examiner/Scrutiny	
iv) Senate/Syndicate	:NIL
National/ International Collaborations	:NIL

Annexure I

List of Publication :

1. Synthesis, spectroscopic, redox, catalytic and antimicrobial properties of some ruthenium(II) Schiff base complexes, *Transition Metal Chemistry*, 34, **2009**, 725-732.
<https://link.springer.com/article/10.1007/s11243-009-9254-4>
2. Synthesis, characterization, electrochemical, catalytic and antimicrobial activity studies of hydrazone Schiff base ruthenium(II) complexes, *Applied Organometallic Chemistry*, 24, **2010**, 301-307
<https://doi.org/10.1002/aoc.1601>
3. Synthesis, characterization, electrochemistry, catalytic, and antimicrobial studies of ruthenium(III) complexes containing ONO donor ligands, **N. Thilagavathi, A. Manimaran, & C. Jayabalakrishnan** *Journal of Coordination Chemistry*, 63, **2010**, 1252-1262.
<https://doi.org/10.1080/00958971003735440>

4. Synthesis, characterization, catalytic and antimicrobial studies of ruthenium(III) complexes, *Central European Journal of Chemistry*, 8, **2010**, 842-851.
DOI: [10.2478/s11532-010-0045-8](https://doi.org/10.2478/s11532-010-0045-8)
5. Synthesis, spectral, catalytic, and bioactivity studies of ruthenium (III) complexes containing ONO donor Schiff base ligands, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*, 41, **2011**, 54-64.
<https://doi.org/10.1080/15533174.2010.522880>

Annexure II

Participation in Seminar/ Conferences/ Workshop:

1. State level seminar on CHEMISTRY AND SOCIETY 19-20
September 2003 Erode Arts College, Erode.
2. State level seminar on MORE AND SONO CHEMISTRY 15
September 2004 Vellalar College for Women, Erode
3. Workshop on SPECTROSCOPY AND ITS APPLICATIONS 26-27 February 2005
Kongunadu Arts and Science College, Coimbatore
4. National seminar on ADVANCES IN RESEARCH AND INNOVATIONS IN
CHEMISTRY 28 September 2007 P.S.G.R Krishnammal College for Women,
Coimbatore
5. BRNS sponsored national Level seminar on INDUSTRIAL APPLICATIONS OF
POLYMER NANOCOMPOSITES 19 October 2013 Kongu Engineering
College, Perundurai
6. Two day UGC-Funded International seminar on “Current Environmental issues and
Measures to Mitigation: An Interdisciplinary study”, Vellallar college for Women, Erode-
12, on 22nd & 23rd September 2016.
7. One day National level seminar on “Green chemistry in organic synthesis”, NKR college
for Women, Namakkal, on 28th September 2016
8. Organized National level seminar on “Recent Research Trends in Chemistry - 2017”,
Thiruvalluvar Government Arts College, Rasipuram, on 10th February 2017.
9. State level seminar on RECENT DEVELOPMENTS IN CHEMISTRY AND
NANOSCIENCE, Arignar Anna Government Arts College, Namakkal on 5th January
2018

10. National Webinar entitled TEACHING DURING AND POST CORONA TIMES organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (**PMMMNMTT**) of MHRD on 12 June 2020.
11. International Webinar entitled BASIC SCIENCE BEHIND MEDICAL MRI organized by PG and Research department of Chemistry , Thiruvalluvar Government Arts College,Rasipuram, on 29.06.2020
12. National Webinar entitled TECHNOLOGY EMPOWERED HIGHER EDUCATION IN INDIA jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (**PMMMNMTT**) of MHRD and Sangamner Nagarpalika Arts, D.J.Malpani Commerce and B.N. Sarda Science College, Sangamner on 06 July 2020.
13. National Webinar entitled “Changing Dynamics of Higher Education in India: Role of ICT” jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (**PMMMNMTT**) of MHRD and Mata Gujri College, Fatehgarh Sahib on 07 July 2020
14. National Webinar entitled PROMOTIONAL AVENUES FOR TEACHERS IN HIGHER EDUCATION: CAS RWGULATIONS-2018 organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (**PMMMNMTT**) of MHRD on 5th SEPTEMBER 2020.

Papers Presented in Seminars/ Conferences/ National/ International:

1. UGC sponsored national conference on RECENT TRENDS IN COORDINATION AND ORGANOMETALLIC CHEMISTRY **Synthesis and characterisation of ruthenium(II) complexes containing beta diketones** 17-18 July 2008 Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore-20.
2. National conference on Recent trends in Materials science- **New trends in FTIR spectroscopy for the characterization of Nanomaterials 2017** on 25 January 2017 Thiruvalluvar Government Arts College,Rasipuram

Resource person/Invited Lectures

S. No	Name of the College	Name of the Event/ Title of speech	Sponsor Scheme	Date
1.	Erode Arts & Science College, Erode	Chemtrendz' 17(Chemistry in everyday life)	-	15.02.2017
2.	Kongu Arts and Science College, Erode	Joy of Learning Chemistry	DBT star college scheme	28.08.2020
3.	N K R Government Arts College, Namakkal	Quantum Chemistry	-	15.11.2021
4.	JKK Nataraja College of Arts and Science, K Omarapalayam	Nanoscience		06.04.2022

Annexure III

i. Reviewer

1. Synthesis and reactivity in inorganic, Metal-Organic and Nano-Metal Chemistry
2. Arabian Journal of Chemistry
3. Spectroscopy Letters

ii. Board of Studies

S.No.	Position	Name of the Board	Period	
			From	To
1	Board of studies member	PG Chemistry, Bharathiar University, Coimbatore	01.01.2007	12.04.2008
2	Board of studies member	PG Chemistry, Erode Arts College, Erode	2005-2006	2006-2007

3	Board of studies member	UG Chemistry, Vellalar College for Women, Erode	2015-2016	2016-2017
4	Board of studies member	PG Chemistry, Erode Arts College, Erode	2022-2023	

iii. Question paper setter, member of scrutiny and Examiner in central valuation for various universities and Autonomous colleges