

FACULTY PROFILE

Name of the Staff : **Dr. E. RAMACHANDRAN**

Official Address with E-mail Id : Associate Professor/Chemistry
Department of Science & Humanities
National Engineering College
K.R. Nagar
Kovilpatti - 628503

Email Id: ramachandran_sh@nec.edu.in,
ramschemist@gmail.com



Vidwan-ID : <https://vidwan.inflibnet.ac.in/profile/211455>

Mobile Number : +91-9894799284

1. Personal Details:

Date of Birth : 02-05-1984

Sex & Marital Status : Male & Married

Citizenship : Indian

Qualification : **M.Sc., Ph.D**

Degree	Programme and Specialization	Class/CGPA	Month and Year of passing	Institute/ University
B.Sc.,	Chemistry	First 68.36	April-2006	CBM College Coimbatore Bharathiar University
M.Sc.,	Chemistry	Second 65.46	April-2008	Bharathiar University Coimbatore-641046
Ph.D	Chemistry	Awarded	April-2013	Bharathiar University Coimbatore-641046

Date of joining: **20-11-2017**

Present status: **Assistant Professor(SG), NEC**

Professional Experience:

Designation	Institution/Organization	Period	Nature of Duties
Associate Professor	National Engineering College, K.R. Nagar Kovilpatti - 628503	01-07-2026 to till date	Teaching
Assistant Professor(SG)	National Engineering College, K.R. Nagar Kovilpatti - 628503	06-04-2022 to 31-06-2026	Teaching
Assistant Professor	National Engineering College, K.R. Nagar Kovilpatti - 628503	20-11-2017 to 05-04-2022	Teaching
Post-Doctoral Fellow	National Central University, Zhongli – 320, Taiwan	Jan- 2014 to Dec- 2014	Research

Marie Curie Piscopia Fellow	University of Padova, Padova, Italy.	Feb- 2015 to Jan- 2016	Research
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2. Honors / Awards: -

- Marie Curie Piscopia Postdoctoral Fellowship
- National pre doctoral Senior Research Fellowship, CSIR, New Delhi, India (2012 -2013)
- National pre doctoral Junior Research Fellowship (2009-2011) and Senior Research Fellowship (2011-2012) under Research Fellowship in Science for Meritorious Student (RFSMS) UGC, New Delhi, India

3. Short term Courses / Seminars / Conference/ Workshops organized:

S. No	Title	Period	No of Participants	Venue
1	5 Days International Webinar for Engineering and Science Students	June 8 th – June 12 th , 2020	500	NEC

3.1 Short term Courses / Seminars / Conference/ Workshops Attended:

S. No	Title	Period	No of Participants	Venue
1	Current Developments in Chemistry	18 th & 19 th Jan-2007	350	Bharathiar University, Coimbatore
2	Recent trends in Coordination and Organometallic Chemistry	17 th & 18 th July 2008	200	Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore,
3	National workshop on “Advances in Coordination Chemistry”	8 th to 10 th Jan-2009	350	NITK-Surathkal, India
4	National Seminar on “Recent Advances in Inorganic and Nano Chemistry” India.	29 th & 30 th March 2010.	200	Madurai Kamaraj University, Madurai,
5	3 rd Asian conference on “Coordination Chemistry ACCC-3, 2011”	17 th to 20 th October 2011	700	India Habitat Center, New Delhi, India,
6	One day workshop on “Spectroscopy”	7 th March 2012	100	Bharathiar University, Coimbatore,
7	Short term course on “Computational Methods in Chemistry”	23-27, July 2012	200	National Institute of Technology, Tiruchirappalli,
8	International conference on “Biological Inorganic Chemistry”	20 th to 22 nd Feb- 2013	500	Periyar University,

9	one week short term course on “New Avenues in Chemical Sciences Research”	18-22, March 2013.	120	National Institute of Technology, Tiruchirappalli,
10	“Chinese Chemical Society Annual Conference 2014”	22 nd to 23rd Nov- 2014	750	ITRI, Hsinchu, Taiwan,
11	“10th Mid-year CRSI Symposium in Chemistry”	23-25, Jul-2015	500	National Institute of Technology, Tiruchirappalli,
12	“45 th IUPAC World Chemistry Congress”	9-14, Aug-2015	1200	BEXCO, Bussan, Korea.
13	AICTE SPONSORED – 3 days Faculty Development Programs for Student Induction Program	7 th to 9 th May 2019	80	National Engineering College, Kovilpatti

3.2 Publications:

International Journal Publications

S.No	Title of the Paper	Name of the Journal	Vol. No & Page No.	Month & Year
1	A study on the applications of 3-amino quinoline complexes of Pd (II) as catalysts for the Suzuki-Miyaura coupling of aryl halides in aqueous and organic media	Polyhedron	230, 116207	2023
2	Experimental studies on the influence of benzyl benzoate on viscosity of vegetable oil based insulating liquids for power transformer	IET Science, Measurement & Technology	1-8	2021
3	Synthesis, Characterization and Biological Activity of Novel Cu(II) Complexes of 6-Methyl-2-Oxo-1,2-Dihydroquinoline-3-Carbaldehyde-4n-Substituted Thiosemicarbazones	Molecules	25, 1868	2020
4	Synthesis, characterization and cytotoxic activity of novel copper(II) complexes with aroylhydrazones derivatives of 2-Oxo-1,2-dihydrobenzo[h]quinoline-3-carbaldehyde	Journal of Inorganic Biochemistry	182, 18–28	2018
5	Synthesis, crystal structure, DNA and protein binding studies of novel binuclear Pd(II) complex of 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde-4(N,N)-dimethylthiosemicarbazone	Journal of Inorganic Biochemistry	155, 1–8.	2016

6	High-temperature, high-pressure hydrothermal synthesis, characterization, and structural relationships of layered uranyl arsenates	Inorganic Chemistry	53, 9065–9072.	2014
7	Role of substitution at terminal nitrogen of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde thiosemicarbazones on the coordination behavior and structure and biological properties of their palladium(II) complexes	Inorganic Chemistry	52, 1504-1514	2013
8	Synthesis, characterization and <i>in vitro</i> pharmacological evaluation of new water soluble Ni(II) complexes of 4 <i>N</i> -substituted thiosemicarbazones of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde	European Journal of Medicinal Chemistry	64, 179–189	2013
9	Synthesis, structure and biological evaluation of a novel 2-oxo-1,2-dihydroquinoline-3-carbaldehyde (2'-methylbenzoyl) hydrazone bridged copper(II) coordination polymer	European Journal of Medicinal Chemistry	64, 148–159.	2013
10	Synthesis, X-ray crystal structure, DNA binding, antioxidant and cytotoxicity studies of Ni(II) and Pd(II) thiosemicarbazone complexes	Metallomics	4, 218-227	2012
11	Evaluation on the role of terminal <i>N</i> -substitution in 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde thiosemicarbazones on the biological properties of new water soluble nickel(II) complexes	RSC Advances	2, 8515-8525	2012
12	Evaluation of DNA binding, antioxidant and cytotoxic activity of mononuclear Co(III) complexes of 2-oxo-1,2-dihydrobenzo[<i>h</i>]quinoline-3-carbaldehyde thiosemicarbazones	European Journal of Medicinal Chemistry	50, 405–415	2012
13	Synthesis, characterization, crystal structure and DNA binding studies of Pd(II) complexes containing thiosemicarbazone and triphenylphosphine/triphenylarsine	Inorganica Chimica Acta	385, 94–99.	2012
14	Mixed ligand palladium(II) complexes of 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde 4 <i>N</i> -substituted thiosemicarbazones with triphenylphosphine co-ligand: synthesis, crystal structure and biological properties	Dalton Transaction	41, 13308–13323	2012
15	Influence of terminal substitution on	Dalton	41, 2486-2499	2012

	structural, DNA, Protein binding, anticancer and antibacterial activities of palladium(II) complexes containing 3-methoxy salicylaldehyde-4(N) substituted thiosemicarbazones	Transactions		
16.	DNA, protein binding, cytotoxicity, cellular uptake and antibacterial activities of new palladium(II) complexes of thiosemicarbazone ligands: effects of substitution on biological activity	Metallomics	4, 101–113	2012
17.	Synthesis, structure and biological evaluation of bis salicylaldehyde-4(N)-ethylthiosemicarbazone ruthenium(III) triphenylphosphine	Metallomics	3, 42–48	2011

3.3 Countries visited: Taiwan, Italy and South Korea

3.4 International Research Collaborations:

1. Prof. Dr. Roberta Bertani

Professore associato confermato

Department of Chemical Process and Industrial Engineering

University of Padova

Padova, Italy-35131

2. Prof. Paolo Sgarbossa

Professor

Dipartimento di Ingegneria Industriale - DII

University of Padova

Padova, Italy-35131