FACULTY PROFILE

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

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

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

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
Assistant Professor(SG)	National Engineering College, K.R. Nagar Kovilpatti - 628503	06-04-2022 to till date	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

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 8th – June 12th, 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	18th & 19th Jan-2007	350	Bharathiar University, Coimbatore
2	Recent trends in Coordination and Organometallic Chemistry	17th & 18th July 2008	200	Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore,
3	National workshop on "Advances in Coordination Chemistry"	8th to 10th Jan-2009	350	NITK-Surathkal, India
4	National Seminar on "Recent Advances in Inorganic and Nano Chemistry" India.	29th & 30th March 2010.	200	Madurai Kamaraj University, Madurai,
5	3rd Asian conference on "Coordination Chemistry ACCC-3, 2011"	17th to 20th October 2011	700	India Habitat Center, New Delhi, India,
6	One day workshop on "Spectroscopy"	7th 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"	20th to 22nd Feb- 2013	500	Periyar University,
9	one week short term course on "New Avenues in Chemical	18-22, March 2013.	120	National Institute of Technology,

	Sciences Research"			Tiruchirappalli,
10	"Chinese Chemical Society Annual Conference 2014"	22nd 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	"45th IUPAC World Chemistry Congress"	9-14, Aug-2015	1200	BEXCO, Bussan, Korea.
13	AICTE SPONSORED – 3 days Faculty Development Programs for Student Induction Program	7th to 9th 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	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**
2	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**
3	Synthesis, characterization and cytotoxic activity of novel copper(II) complexes with aroylhydrazone derivatives of 2-Oxo-1,2-dihydrobenzo[h] quinoline-3-carbaldehyde	Journal of Inorganic Biochemistry	**182, 18–28**	**2018**
4	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**
5	High-temperature, high-pressure hydrothermal synthesis, characterization, and structural relationships of layered uranyl arsenates	Inorganic Chemistry	**53, 9065–9072.**	**2014**
6	Role of substitution at terminal nitrogen of 2-oxo-1,2-dihydroquinoline-3-	Inorganic Chemistry	**52, 1504-1514**	

	carbaldehyde thiosemicarbazones on the coordination behavior and structure and biological properties of their palladium(II) complexes			**2013**
7	Synthesis, characterization and *in vitro* pharmacological evaluation of new water soluble Ni(II) complexes of 4*N*-substituted thiosemicarbazones of 2-oxo-1,2-dihydroquinoline-3-carbaldehyde	European Journal of Medicinal Chemistry	**64, 179−189**	**2013**
8	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**
9	Synthesis, X-ray crystal structure, DNA binding, antioxidant and cytotoxicity studies of Ni(II) and Pd(II) thiosemicarbazone complexes	Metallomics	**4, 218-227**	**2012**
10	Evaluation on the role of terminal *N*-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**
11	Evaluation of DNA binding, antioxidant and cytotoxic activity of mononuclear Co(III) complexes of 2-oxo-1,2-dihydrobenzo[h]quinoline-3-carbaldehyde thiosemicarbazones	European Journal of Medicinal Chemistry	**50, 405−415**	**2012**
12	Synthesis, characterization, crystal structure and DNA binding studies of Pd(II) complexes containing thiosemicarbazone and triphenylphosphine/triphenylarsine	Inorganica Chimica Acta	**385, 94−99.**	**2012**
13	Mixed ligand palladium(II) complexes of 6-methoxy-2-oxo-1,2-dihydroquinoline-3-carbaldehyde 4N-substituted thiosemicarbazones with triphenylphosphine co-ligand: synthesis, crystal structure and biological properties	Dalton Transaction	**41, 13308–13323**	**2012**
14	Influence of terminal substitution on structural, DNA, Protein binding, anticancer and antibacterial activities of palladium(II) complexes containing 3-methoxy salicylaldehyde-4(N) substituted thiosemicarbazones	Dalton Transactions	**41, 2486-2499**	**2012**
15	DNA, protein binding, cytotoxicity,	Metallomics	**4, 101–113**	**2012**

	cellular uptake and antibacterial activities of new palladium(II) complexes of thiosemicarbazone ligands: effects of substitution on biological activity			
16.	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