

Name: Dr. T.K. Bhuvaneswari

Designation: Assistant Professor (Sl.Gr)

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- **Research Area**: Electro Chemistry (Corrosion), Batteries.

- **Educational Qualifications**:

Qualification	Department	Year (From -To)	Percentage	Class
Ph.D.,	Electro Chemistry (Corrosion)	2011-2019	-	-
M.Phil.,	Industrial Chemistry	2006-2007	79 %	First Class
M.Sc.,	Chemistry	2004-2006	76 %	First Class
B.Sc.,	Chemistry	2001-2004	80 %	First Class

- **Experience: (18 Years)**

Name of Company / Institutions	Designation of Post	From	To	Experience in Year
		DD-MM-YYYY	DD-MM-YYYY	
University college of Engineering Ariyalur, Ariyalur	Assistant Professor(Sl.Gr)	10.08.2023	Till date	2 years 9 months
University college of Engineering Ramanathapuram, Ramanathapuram	Assistant Professor	17.09.2009	09.08.2023	14 years
Anna University Tiruchirappalli Ramanathapuram Campus	Lecturer	01.09.2008	16.09.2009	1 year
Alagappa Chettiar College of Engineering and Technology, Karaikudi	Lecturer	14.02.2008	30.08.2008	6 months

- **Additional / Academic Responsibilities at University:**
  - Class Advisor (2009 to till date)
  - Deputy Warden for girl's students (2009-2010 & 2011-2013) at UCE, Ramanathapuram
  - Head of the Department (i/c) of Chemistry (2015 to 2019) at UCE, Ramanathapuram
  - Member of Anti-Ragging Committee at UCE, Ramanathapuram.
  - Member of Discipline Committee at UCE, Ramanathapuram.
  - Convenor of Class Committee meeting at UCE, Ramanathapuram.
  - Co-ordinator for the skill development of girl students in collaboration with FLO at UCE, Ramanathapuram (2022).
  - Question paper setter for Autonomous colleges.
  - Question paper setter for TNPSC Exams.
  - Squad member for Anna University Exams.
  - AUR for Anna University Exams.
  - Co-ordinator for Women Empowerment Cell. (2023 to till date) at UCE, Ariyalur.
  - TFC Co-Coordinator (TNEA 2024) at UCE, Ariyalur.
  - Presiding Officer for Internal Complaints Committee (ICC) since 2024.

- **Professional Activities:**
  - Organized skill development programme on "Campus to Corporate readiness for girl students" from 11th April to 11th May 2022 at UCE, Ramanathapuram.
  - Organized Health Awareness Programme on 23.04.2024 under Women Empowerment Cell at UCE, Ariyalur.
  - Organized International Women's Day celebration on 11.03.2025 under Women Empowerment Cell at UCE, Ariyalur.

- Organized International Women's Day celebration on 09.03.2026 under Women Empowerment Cell at UCE, Ariyalur.

➢ **List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)**

1. Completed Eight modules course organized by NITTT and AICTE during October-November 2025.
2. NPTEL-AICTE approved online 12-week FDP course on "Food Oils and Fats: Chemistry and Technology" organized by NPTEL during 22.07.2024 to 11.10.2024.
3. NPTEL-AICTE approved online 12-week FDP course on "Co-ordination Chemistry (Chemistry of Transition Elements) organized by NPTEL during Jan-Apr 2024.
4. Online Two-week Refresher course in "Chemistry" from 15 December 2023-29 December, 2023 jointly organized by Teaching Learning Centre Ramanujan college, University of Delhi, Kongunadu Arts and Science College(Autonomous), Coimbatore and Kandaswami Kandar's College, Velur, under the aegis of Ministry of Education (PMMMNMTT) (Two week)
5. Online Two-week Inter-disciplinary Refresher course in "Environmental Science" from 28 December 2022-11 January, 2023 organized by Teaching Learning Centre Ramanujan college, University of Delhi under the aegis of Ministry of Education (PMMMNMTT) (Two week)
6. Online Faculty Development Programme on "Inculcating Universal Human Values in Technical Education" from 06.06.2022 to 10.06.2022 organized by All India Council for Technical Education (AICTE) (5 days)
7. Online Faculty Development Programme on "Recent Advances in Water Treatment and Desalination" from 23.08.2021 to 27.08.2021 at Anna University, University College of Engineering-Dindigul organized by AICTE Training and ATAL Academy. (1 week)
8. Two week online Faculty Development Programme on "ICT tools for Teaching learning process and Institute" jointly organized by Electronics and ICT Academies held from 10th -21st August, 2020 under the 'scheme of financial assistance for setting up of Electronics and ICT Academies' of the Ministry of Electronics and Information Technology (Meity), Government of India. (Two week)
9. Faculty Development Programme on "Interdisciplinary Approaches on Chemical & Physical Sciences" (IACPS'20) held from 28th July 2020 to 1st August 2020 organized by Department of Chemistry, University College of Engineering-BIT campus, Anna University, Tiruchirappalli (1 week).

10. Faculty Development Programme on “Journey of Nanomaterials for Intense Applications” organized by Department of Chemistry, Kongu Engineering college, Perundurai from 07.07.2020 to 09.07.2020.(3 days)

11. Online AICTE recognized Faculty Development Programme on Refresher course on Application of Nano science in Modern Day Research and Technology from 19.06.2020 to 02.07.2020 (Two Weeks) organized by Applied Science Department, NITTTR, Chandigarh.

12. Online Faculty Development program organized by Department of chemistry, D.K.M.College for women, Vellore, TN in association with spoken Tutorial project, IIT Bombay, MHRD, Govt of India from 04.05.2020 to 10.05.2020. (1 week)

13. AICTE approved FDP, ARPIT course on “online Refresher course in chemistry for Higher Education with a “A” Grade in the proctored examination held on 16.02.2020, organized by Sri Guru Tegh Bahadur khalsa college,university of delhi during 01.09.2019 to 31.12.2019.

14. FDP (2017)" Two Week FDP ON Thin Film Deposition and Characterization (TFDC-2017) ", organized by Alagappa Chettiar Government College of Engineering and Technology, Karaikudi during 21-11-2017 to 04-12-2017 (14 days).

15. Seminar (2016) “Challenges and opportunities in Chemical and Environmental Research (chemera 2016)” , organized by Department of Chemistry, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli during 11.08.2016 to 12.08.2016 (2 days).

16. Seminar (2014) “Seventeenth National congress on Corrosion control”, organized by CSIR – Central Electrochemical Research Institute, Karaikudi during 21.08.2014 to 23.08.2014 (3 days).

17. Orientation Programme (2014), “Orientation Programme”, organized by Madurai Kamaraj University during 07-02-2014 to 06-03-2014. (28 days)

18. Workshop (2010) “Research Methodology: Objectives and Approaches”, organized by Anna University of Technology, Madurai during 29.12.2010 (1 day).

19. Workshop (2007) “Technology Options for a Greener Environment”, organized by Mount Zion College of Engineering & Technology, Pudukkottai during 08.03.2007 to 09.03.2007 (2 days).

20. Workshop (2006) “Nanomaterials-Synthesis, Characterization and Applications (NMSCA-2006)”, organized by Department of Industrial Chemistry & Department of Physics, Alagappa University during 14.12.2006 to 15.12.2006 (2 days).

21. Training Programme (2006) "Computational Methods in Chemistry and Molecular modeling", organized by Department of Chemistry, National Institute of Technology, Tiruchirappalli during 11.03.2006 to 12.03.2006 (2 days).

- **International Conferences Participated:**

1. Eleventh international symposium on Advances in Electrochemical Science and Technology (iSAEST-11) (2016), " Eleventh international symposium on Advances in Electrochemical Science and Technology " organized by SAEST AND CSIR- CECRI, KARAIKUDI during 08.12.2016 to 10.12.2016.
2. International seminar (2010), "Sustainable Environmental Awareness through Educational media", organized by National Institute of Technical Teachers Training and Research (NITTTR) during 26th November 2010.

- **Publications :**

a. International Journals:

- **Bhuvaneswari, TK**, Vasantha, VS & Jeyaprabha, C. (2018**)** '*Pongamia pinnata* as a green corrosion inhibitor for mild steel in 1N sulfuric acid medium', Silicon, Vol.10, No.5, pp:1793-1807.

- **Bhuvaneswari, TK** & Jeyaprabha, C. (2018) 'Adsorption and Inhibition properties of *Tephrosia purpurea* as corrosion inhibitor for mild steel in sulphuric acid solution' Journal of Dispersion Science and Technology, Vol.40, No.10, pp:1441-1450.

- **Bhuvaneswari T.K**., Jeyaprabha C. and Arulmathi P (2020): Corrosion inhibition of mild steel in hydrochloric acid by leaves extract of Tephrosia Purpurea, Journal of Adhesion Science and Technology, Vol.34, No.22, pp:2424-2447.
- C.Jeyaprabha., **T.K**.**Bhuvaneswari**, (2022), Thermodynamics, Adsorption and Spectral Studies of the Corrosion Inhibition of Mild steel by Different Leaf Extracts in 1.0 N HCl: Comparative Analysis, Journal of University of Shanghai for Science and Technology, Vol.24, No.10, pp:128-144.
- C.Jeyaprabha., **T.K**. **Bhuvaneswari**, (2022), Electrochemical and morphological investigation on Corrosion Inhibition of Mild steel in 1N HCl by leaf extract of Pongamia pinnata, Journal of Molecular Chemistry, Vol.22, 468, pp:1-10.

- **Conferences**
  - Presented a paper entitled 'Corrosion Inhibition efficiency of different leaves extracts for mild steel in Hydrochloric acid medium: A Comparative Analysis' in the conference on "Recent Trends in Green Chemistry and Material Science (RTGCMS-2022)" held at Department of Applied Science Humanities & Chemical Engineering, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram district during 25-26, August 2022.
  - Presented a paper entitled 'Corrosion Inhibition behavior of Tephrosia Purpurea and Pongamia Pinnata leaf extract for mild steel in Sulphuric acid medium: A Comparative Analysis' in National conference on "Recent Advances in Chemical Engineering (RACE-2018)" held at Department of Chemical Engineering, Faculty of Engineering & Technology, Annamalai University, Chidambaram, Tamil Nadu, India during 28th & 29th september 2018.
  - Presented a poster entitled 'Inhibition effect and adsorption parameters of Tephrosia Purpurea leaf extract for mild steel corrosion in acid media', in National Conference on Recent Innovations in Applied Chemistry and Advanced Materials (NCRIACAM'17), held at Department of Chemistry, Sriram Engineering College, Perumalpattu, Chennai, Tamil Nadu, India on 26th September 2017.
  - Presented a poster entitled, 'Corrosion Inhibition of Mild Steel in 1N HCl Acid solution by leaf extract of Pongamia Pinnata-A Green approach to Corrosion Mitigation', in National Conference on Advances in Functional Materials (NCAFM 2017), held at Department of Chemistry, St. Joseph's College of Engineering, Chennai, Tamil Nadu, India on 5th August 2017.
  - Presented a poster entitled, 'Leaf extract of Pongamia Pinnata as Corrosion Inhibitor for mild steel in 1N Sulphuric acid medium', in Eleventh international symposium on Advances in Electrochemical Science and Technology (iSAEST-11) organized by SAEST AND CSIR- CECRI, Karaikudi held at Chennai during 08.12.2016 to 10.12.2016.
  - Presented a poster entitled, 'Wheat Grass leaf extracts as Corrosion Inhibitor for mild steel in HCl medium', in National Conference on Recent Advances in Chemical Sciences (RACS-2013), held at Anna University, University College of Engineering-Dindigul, Dindigul, on 20th February 2013.
  - Presented a paper entitled 'Nanocrystalline Sr-doped $LiCoO_2$: Synthesis, Structure and its electrochemical properties for lithium secondary batteries' in National Seminar on Recent advances in Textile and Electrochemical Sciences, held at Alagappa University, Karaikudi, Tamil Nadu, India during June 1 & 2, 2007.