

BIO DATA



Name :Dr.G.Kanthimathi

Designation : Professor

Department : Chemistry

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1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year ofPassing
B.Sc	Chemistry	ManonmaniumSundaranar	1994
M.Sc.	Chemistry	ManonmaniumSundaranar	1996
M.Phil	Chemistry	Madurai Kamaraj	2004
P.hD	Chemistry	Kalasalingam	2013

2. Professional/ Industry Experience

: (in chronological order)

S.No	Designation	Institution/Organization	Period	
			From	To
1.	Professor	Ramco Institute of Technology	01.02.2024	Till Date
2.	Associate Professor	Ramco Institute of Technology	1.6.2018	31.01.2024
3.	Assistant Professor (Sr.Gr.)	Ramco Institute of Technology	1.6.2016	30.5.2018
4.	Assistant Professor	Ramco Institute of Technology	1.7.2014	30.5.2016
5.	Assistant Professor	Kalasalingam University	07.06.2007	30.06.2014
6.	Lecturer & HOD	V.P.M.M Arts and science College for Women	08.05.2004	06.05.2007
7.	Lecturer	V.P.M.M Engineering College for Women	21.10.2002	07.05.2004
8.	Lecturer & HOD	V.P.M.M Arts and science College for Women	16.05.1998	19.10.2002

Updated as on 06.06.2024

3. Research Interest: Nano Materials for Environmental Applications

4 Publications : 17

4.1 JOURNAL PUBLICATIONS

1. Omod Ojulu, **G.Kanthimathi**, Raji Fayisa, Ponnusamy Thillai Arasu, published a paper entitled “Sensitivity and Selectivity Detection Studies of Fe (III) Using Cu(I) Complex of Schiff Base Material”, **Materials Science Forum**, ISSN:1662-9752, Vol. 1119, pp31-45, 2024, Trans Tech Publications Ltd, Switzerland on 29.03.2024 .<https://doi.org/10.4028/p-O8mOcg>
2. T.Vigneswari*, **G.Kanthimathi**, Lakshmanan Muthulakshmi, published a paper entitled “**Superparamagnetic properties of iron oxide nanoparticles using vitex negundo leaf extract by green synthesis method and its antimicrobial activity against wound pathogen**” in Elsevier **Materials Today Proceedings**, in Press (July 2023) on 19.06.2023. <https://doi.org/10.1016/j.matpr.2023.06.293>.
3. Hana Tadesse, **G.Kanthimathi** Raji Fayisa, Ponnusamy Thillai Arasu, Segni Asaf published a paper on “**Antibacterial studies and characterization of newly synthesized ZnO/ZnS/CuS ternary nanocomposite**” in Elsevier **Materials Today Proceedings**, in Press (July 2023) on 19.06.2023. <https://doi.org/10.1016/j.matpr.2023.06.254>
4. N. Ravisankar, N. Sarathi, T. Maruthavanan, Subramaniyan Ramasundaram , M. Ramesh, C. Sankar, S. Umamatheswari, **G. Kanthimathi**, Tae Hwan Oh, published a paper on “Synthesis, antimycobacterial screening, molecular docking, ADMET prediction and pharmacological evaluation on novel pyran-4-one bearing hydrazone, triazole and isoxazole moieties: Potential inhibitors of SARS CoV-2”, Journal of Molecular Structure, Volume 1285, 5 August 2023, 135461 <https://doi.org/10.1016/j.molstruc.2023.135461>. (SCI Indexed, IF 3.841)
5. Tarek A.Yousef, Abdulrahman G.Alhamzani, Mortaga M.Abou-Krishna, **G. Kanthimathi**, M.S.Raghu, K.Yogesh Kumar, M.K.Prashanth, Byong-Hun Jeon published a paper on “Synthesis, molecular docking study and anticancer activity of novel 1,3,4-oxadiazole derivatives as potential tubulin inhibitors” *Heliyon*, Science Direct. Volume 9, Issue 2, February 2023, e13460. (SCI Indexed, IF 3.776) <https://www.sciencedirect.com/science/article/pii/S2405844023006679>.
6. S.Pullu Reddy, J.Sai Chandra, K.S. Yoganand, G.Kanthimathi and K.V.L.N. Murthy published a paper on “Optimization and Validation of RP-HPLC Stability Indicating Method for Determination of Gliclazide in Pure and Bulk Drug” in *Bulletin Of Environment, Pharmacology and Life Sciences* Volume 11, 2022.(IF =0.982, WOS) Journal’s URL:<http://www.bepuls.com>
7. **Kanthimathi.G and Kottaisamy. M** .International Conference on Science, Technology and Innovations for journal publication “ Kinetic Studies of Heavy Metal Removal using Nano Iron Oxide” (Accepted)
8. **Kanthimathi. G, Thillai Arasu. P, Kotteeswaran . Pand Kottaisamy. M** (2015), “Removal of lead (II) ions using synthetic nano iron oxide and commercial activated carbon”, *J. Indian Chem. Soc.*, Vol.92, pp. 1029-1033. **Impact Factor 0.10**
9. **Kanthimathi. G, Kotteeswaran. P, Thillai Arasu. P, and Kottaisamy.M,** (2015), “Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards The Removal of Cu(II) Ions – Comparative Study”, *International Journal of Innovative Research in Science & Engineering ISSN (Online) 2347-3207*.
10. Jayalakshmi.L, Devadoss. V, Ananthakumar.K, **Kanthimathi.G**(2014) “Adsorption Efficiency of Natural clay towards the removal of Naphthol green dye from Aqueous solutions: Equilibrium and Kinetic studies”, *Int. Res. J. Environment Sci.*, 3(5), 21-26.

11. Kanthimathi. G ,Kotteeswaran , ThillaiArasu.P and Kottaisamy .M “ Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards the Removal of (Co(II) ions, **Indian Journal of Chemical Science Transactions** 2014, 3(1) 431-437.Impact Factor 0.980
12. **Kanthimathi.G**,Kotteeswaran.P and Kottaisamy.M, (2013), “Vibrational Spectral Magnetics studies on the removal of Ni(II) and Pb(II) ions using synthetic nano adsorbent Fe_3O_4 ”, **International Journal of Chem. Tech. Research**, vol.5, No.5,pp.2548-2554. Impact Factor 0.136
13. **Kanthimathi.G**, Kotteeswaran.P M. Muthuraman M. Mahendran and M. Kottaisamy, (2013), “ Atomic Absorption and Vibrational Spectral Magnetic Studies on the removal of Cu(II) and Co(II) ions using synthetic nano adsorbent Fe_3O_4 ”, **Journal of Soft Nano Science Letter** , vol.3, pp. 75-78.
14. **Kanthimathi. G, Kottesswaran and Kottaisamy.M (2012), “ Removal of Cobalt (II) Ion form Aqueous Solution using Synthetic Nano Fe_3O_4 and Macro Fe_3O_4 – A comparative study”, Thin Films and Nanomaterials, Macmillan publishers, ISBN: 978-935-059-049-2.**
15. **Kanthimathi.G**, Kotteeswaran.P and Kottaisamy.M, (2012), “Effective Removal of Nickel (II) ions by using synthetic nano Fe_3O_4 ”, **Journal of Advances in Nanoscience and NanoTechnology**, vol.678, pp.7-11.
16. **Kanthimathi.G**,Kotteeswaran.P and Kottaisamy.M, (2012), “Atomic Absorption Spectral studies for the removal of Lead(II) ion by using synthetic nano and macro Fe_3O_4 ”, **Advanced Material Research**, vol.584, pp.173-177.Impact Factor 0.87
17. **Kanthimathi.G**, Kotteeswaran.P, ThillaiArasu.P, Govindnaraj.P and Kottaisamy.M, (2012), “A comparative study of the Adsorption Efficiency of the synthetic nano Iron oxide and Commercial activated charcoal towards the removal of Nickel(II) ions”, **E-J.Chem.**, vol.9, No. 4, pp. 2384-2393.Impact factor 1.7

4.2 CONFERENCE PUBLICATIONS

1. **G.Kanthimathi**,O.Senthilkumar, C.Sankar, B.S.Prathiba and S.M.Senthil Kumar presented a paper entitled “**Green Synthesis of Silver Nanoparticles using Vitex Negundo Extracts and their Application in the Effluent Treatment of Cracker Industries**”, Second International Conference on Advances in Physical Sciences and Materials 2021 (ICAPSM 2021) ,Coimbatore 17 Aug 2021.
2. **G.Kanthimathi**, T.Vigneswari, O.Senthilkumar and C.Sankar presented a paper entitled “Synthesis of Iron Oxide Using Azadirachta Indica”, International Conference on Solution Grown Crystals and Their Useful Applications(SGCA-2021), organised by SSN Research Centre, SSN Institutions, Chennai, Tamil Nadu, India, 13 September 2021. (ISBN Number not Processed by the Convenor)
3. T.Vigneswari, **G.Kanthimathi**, O.Senthilkumar and C.Sankar presented a paper entitled “Green Synthesis and Antibacterial Activity Of Iron Oxide Nanoparticles Using *Vitex Negundo* Leaf Extract by Sol-gel Method”, International Conference on Solution Grown Crystals and Their Useful Applications(SGCA-2021), organised by SSN Research Centre, SSN Institutions, Chennai, Tamil Nadu, India, 13 September 2021.
4. **Dr.G.Kanthimathi** presented a paper entitled “**A Clean & Green Ramco Campus Feasibility Report**” for the **IUCCE Mini-Symposium on "Smart, Clean, Green, and Sustainability"** under the theme **Sustainable Technology** on 06 Feb 2022.
5. **Dr.G.Kanthimathi and M.Venkatesh Perumal** presented a paper entitled” Green Synthesis of Metals and their Oxide Nanoparticles-Sol Gel Method” on National Virtual Conference on Sustainable Chemistry and Renewable Energy (SCFRE -

2022) organized by Universal Intellectuals Trust (UIT)Villupuram, Tamil Nadu, India on 27 Feb 2022.

6. **T.Vigneswari, G.Kanthimathi** and P.Sivaranjana “Green Synthesis of CuO Nanoparticles with Hibiscus rosa-sinensis and phytochemical screening” presented a paper titled in the International Conference on Smart Technologies and Applications (ICSTA 2022) organized by Ramco Institute of Technology, Rajapalayam during March 11 - 12, 2022.
7. Dr.S.Periyanayagi, **Dr.G.Kanthimathi**, Ms. M.Helenmary and Ms.P.Kiruthika presented a paper entitled “**Monitoring Domestic Sewage Effluent Using LoRa Technology**” in ISTE SPONSORED NATIONAL LEVEL CONFERENCE ON EMERGING TRENDS IN ENGINEERING DESIGN & MANUFACTURING (ETEDM - 22), organized by Hindustan Institute of Technology, Coimbatore on 15th & 16th June 2022.
8. **Dr.G.Kanthimathi, Dr.T.Vigneswari L.Muthulakshmi** and **O.Senthilkumar** presented a paper entitled “**Green synthesis of silver nanoparticles using Vitex negundo and its enhanced antibacterial activity against Bacillus sp.**” in 2nd International Conference on Sustainable Materials & Technologies for Bio & Energy Applications (SMTBEA-2022) organized by Department of Electronics & Communication Engineering & SSN research Centre (SSNRC), Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam, 13 July to 15 July 2022.
9. M. Muralisankar, **G. Kanthimathi, T. Vigneswari** and **O. Senthilkumar** presented a paper entitled “Undoped and Ag doped TiO₂ Nanoparticles by Sol-Gel Method for Dye Effluent Treatment .” in 2nd International Conference on Sustainable Materials & Technologies for Bio & Energy Applications (SMTBEA-2022) organized by Department of Electronics & Communication Engineering & SSN research Centre (SSNRC), SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, KALAVAKKAM during 13 July to 15 July 2022.
10. T.Vigneswari, **G.Kanthimathi** and Lakshmanan Muthulakshmi, presented a paper entitled “Green Synthesis of Silver Nanoparticles Using Azadirachta Indica and its Enhanced Antibacterial Activity”, International Conference on Functional Materials and Nanotechnology (ICFMN-2K22), Organized by Nehru Institute of Technology, Coimbatore, 20 July, 2022 & 21 July, 2022.
11. Hana Tadesse, **G.Kanthimathi** Raji Fayisa, Ponnusamy Thillai Arasu, Segni Asafa, presented a paper entitled “**Antibacterial studies and characterization of newly synthesized ZnO/ZnS/CuS ternary nanocomposite**”, 2023 International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023) organized by KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, February 9-10, 2023.
12. T.Vigneswari*, **G.Kanthimathi**, Lakshmanan Muthulakshmi, presented a paper entitled **Superparamagnetic properties of iron oxide nanoparticles using vitex negundo leaf extract by green synthesis method and its antimicrobial activity against wound pathogen**”, 2023 International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023) organized by KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, February 9-10, 2023.
13. M. Muralisankar, **G. Kanthimathi** and **O. Senthilkumar** presented a paper entitled “Undoped and Ag doped TiO₂ nanoparticles by sol-gel method for antimicrobial activity” International Conference on Sustainable Technology in Civil Engineering and Applied Sciences (ICSTCA-2023) organized by Department Of Civil Engineering and Science & Humanities, RAMCO Institute of TEchnology, Rajapalayam on 24 & 25 MARCH 2023.

14. Omod Ojulu, **G.Kanthimathi***, Raji Fayisa, Ponnusamy Thillai Arasu presented a paper entitled “ Sensitivity and selectivity detection studies of Fe(III) using newly synthesized fluorescent Cu(I) complex of Schiff Base material derived from 2, 2'-bipyridine and trans cinnamic acid” in International Conference on Advanced Materials Modern Manufacturing and Computerized Automation (IAMMCA-2023)”, organized by Department of Mechanical Engineering 23-06-2023 & 24-06-2023.
15. Zelalem Enawugaw Desalegn, Raji Feyisa Bogale , Ponnusamy Thillai Arasu , **G.Kanthimathi** and Segni Asafa Ashana presented a paper entitled “Assessment of the levels of certain heavy metals in fish specimens from Fincha, Amerti, and Nashe (FAN) lakes of Horo Guduru , Oromia , Ethiopia” ,2nd International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2023] conducted on 29th& 30th December 2023, organized by ISET Research India in association with Maejo University Thailand & Saigon University Vietnam.
16. **G.Kanthimathi**, M. Thamilarasu, S. Manimegalai, T.Vigneswari, A.Prithiba presented a paper entitled “ **Studies on the Biosynthesis, Characterisation and Adsorption of Magnesium oxide nanoparticles utilizing *Parmotrema perlatum***”, Sixth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2024) organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India, on 03.05.2024 & 04.05.2024.
17. N.Gokulnath, S.Jayaharish, A.C. LoghaSundhar , **G.Kanthimathi** and D.Darling Helen Lydia (2019), “Groundwater Treatment In and Around Sivakasi Taluk Using Nanomaterials”, Proceedings of the International Conference on Advanced Topics in Interdisciplinary Research in chemistry and Physics (ICAT_IRCP) 2019, 54, Departments of Chemistry and Physics, Sri.S.Ramasamy Naidu Memorial College, Sattur.
18. **G.Kanthimathi**, M.Kottiasamy, P.ThillaiArasu and P.Kotteeswaran (2018), Kinetic Studies on Heavy metal removal using Nano iron oxide, Science, Technology and Innovation Application and Transfer for Development Endeavors, 32, Wollega University, Nekemte, Ethiopia, 22-23 June 2018
19. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2018), Synthetic Nano Iron oxide is superior for the removal of Co(II) ions than commercial activated carbon and Macro Iron oxide, International conference on Advances in New Materials, 8-9 June 2018.
20. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2018), Industrial Effluent Treatment Using Encapsulated Nano Iron Oxide (Fe₃O₄), Recent Trends in Nano biosensors (NBS 2018), 68, Department of Inorganic chemistry, University of Madras, Chennai, 22-23rd February.
21. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2017), Role of Nanomaterial's for Environmental Protection, Second National Conference on Innovations in Engineering, Science and Technology, 24-25, March 2017
22. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2015), Adsorption Studies For The Removal Of Ni(II), Co(II), Cu(II) And Pb(II) Ions Using Synthetic Nano Iron Oxide (SNIO), International Conference on Magnetic Materials & Applications (ICMAGMA – 2015), 2-4 December 2015.

23. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2015),Efficient Synthesis of Nano Iron Oxide Fe₃O₄ (SNIO) by Acid-Base Hydrolysis,National Conference on Innovations in Engineering, Science and Technology, Ramco Institute of Technology, Rajapalayam 6-7March 2015
24. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2014),Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial activated Carbon Towards the Removal of Cu (II) ions – Comparative Study,International Conference on Advances in New Materials (ICAN 2014),3 University of Madras, Chennai,20-21June 2014
25. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2013),A comparative Study on the Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards the Removal of the Cobalt (II) ions,Chennai Chemistry Conference -2013,87 ,Central Leather Institute,Chennai,8-10 February 2013.
26. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2013),”A comparative Study on the Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards the Removal of the Lead (II) ions”,International Conference On Emerging Trends in Chemical Sciences,248,VIT,Vellore, 5-7 December 2013.
27. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2013),“Effective Removal of co-existing Nickel, Cobalt, Lead and Copper ions using Commercial Activated Carbon,Second National conference on Advanced Functional Materials and Applications,62,978-81-921319-2-4,Macmillan publishers india Ltd,Kalasalingam University,22-23rd March 2013
28. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran(2013),Atomic Absorption Spectral Studies on the Removal of Cu(II) ion by using Synthetic Nano and Micro Fe₃O₄,National Seminar on Technologically Important Crystalline and Amorphous Solids,129, 978-81-921319-0-0 ,Kalasalingam University,1-2 March 2013
29. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran(2013),Atomic Absorption Spectral Studies on the Removal of Cu(II) ion by using Synthetic Nano and Micro Fe₃O₄,National Seminar on Technologically Important Crystalline and Amorphous Solids,129, 978-81-921319-0-0 ,Kalasalingam University,1-2 March 2013
30. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran(2012),Atomic Absorption Spectral Studies on the Removal of Lead(II) ion by using Synthetic Nano and Micro Fe₃O₄,International Conference on Recent Trends in Advanced Materials ICRAM 2012,139,VIT, Vellore, 20-22 February 2012
31. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2011),Removal of Cobalt (II) ion from Aqueous solutions using Synthetic Nano Fe₃O₄ and Macro Fe₃O₄- A comparaative study,International Conference on Advanced Materials,Thin Films and Nanomaterials,(183),978-935-059-049-2 ,PSG College of Technology,Coimbatore,12-16 December 2011.Macmillan Publishers India Ltd.
32. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2011),Effective Removal of Copper ion by Synthetic Fe₃O₄,Chennai Chemistry Conference -2011,111,IIT Madras,11-13 February 2011
33. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2009), Sol -gel Combustion Synthesis of Silica Encapsulated iron oxide Nanocomposite for water softening,1st Internaitonal Conference on Nanostructured materials and

Nanocomposites, Institute of Macromolecular Science and Engineering, 256, Kottayam, 6-9 April 2009

34. **G.Kanthimathi**, M.Kottiasamy and P.Kotteeswaran (2008), EDTA assisted uptake of Nickel(II) ions using commercial activated carbon, National Seminar on "Theoretical and Chemical Sciences (TACS-2008), Annamalai University, Chitambaram, 22-23 February 2008.

4.3 Conference participated

1. **1.G.Kanthimathi**, M. Thamilarasu, S. Manimegalai, T.Vigneswari, A.Prithiba presented a paper entitled “ **Studies on the Biosynthesis, Characterisation and Adsorption of Magnesium oxide nanoparticles utilizing *Parmotrema perlatum***”, Sixth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2024) organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India, on 03.05.2024 & 04.05.2024.
2. Dr.G.Kanthimahti, ASP attended a two days Virtual International Conference on “**Functional Materials and its Applications Aspects - ICFMAA-2021**” organised by Department of Physics, Saveetha School of Engineering, & SIMATS, Salem from 29 Oct to 30 Oct 2021.
3. Dr.G.Kanthimathi, ASP attended a National Virtual Conference on “**Recent Advances in Nanoscience and Nanotechnology (RANN - 2020)**” “being organized by the Department of Physics, Vidyavardhaka College of Engineering, Mysuru in association with the Karnataka Science and Technology Academy during 11 Nov to 13 Nov 2021.
4. Dr.G.Kanthimathi, ASP attended a National Virtual Conference on “**Recent Advances in Nanoscience and Nanotechnology (RANN - 2020)**” “being organized by the Department of Physics, Vidyavardhaka College of Engineering, Mysuru in association with the Karnataka Science and Technology Academy during 11 Nov to 13 Nov 2021.

4.4 Book/Book chapter publications:

1. P.Perumal, B.Vignesh Babu, S. Manimegalai **G.Kanthimathi**, A.Prithiba published a book chapter entitled “**Phytochemical Screening and Spectral Analysis Of *Sesbania Grandiflora* and *Amaranthus Viridis***” in IIP Book Series "IIPV3EBS06_G32 Futuristic Trends in Chemical, Material Sciences & Nano Technology e-ISBN: 978-93-5747-960-8 IIP Series, Volume 3, Book 7, Part 4, Chapter 1
2. **Dr.G.Kanthimathi, ASP** Dr.M.Venkatesh Perumal AP and Dr.O.Senthilkumar **ASP** published a book chapter entitled “**Drinking Water Contaminants and Health Implications**”, in the Book “**Science of Environment**”, Scieng Publications (**ISBN - 978-81-955557-9-6**) published on 21.04.2022
3. V. Siva , **G. Kanthimathi**, A. Sakthivel, A. Murugan, T. Rajkumar, N. Raman, C. R. Ravikumar, P. Thillai Arasu & N. N. Yadav published a book chapter entitled “**Hybrid Nanomaterials as Semiconductors**” in Elsa (Chapter 6) (<https://app.elsevier.com/document/08680083-4148-4ee9-878f-a75af14dbbe8/write?projectId=11b9f15e-2032-4828-89d2-dd4ba340d0a0>)
4. **Dr.O.Senthilkumar, Dr.G.Kanthimathi**, C. Revathi and S.Soundeswaran published a book chapter entitled “**Current Trends in Sodium Alginate Based Nanocomposites for Wastewater Treatment**”, Recent Innovations In Engineering, Science and

Management (RIESM), 912-936 Association of Global Academicians and Researchers Publications,(ISBN : 978-81-950236-2-2) on 10.10.2021.

5. O. Senthilkumar, Dr. G. Kanthimathi, Dr. N. Revathi and Dr. M.Venkatesh Perumal Published a book entitled ” Engineering Chemistry” on Pearson Publications.
6. O. Senthilkumar, Dr. G. Kanthimathi, Mr.K.Karpagavel, Dr. N. Revathi and Dr. M. Venkatesh Perumal, Chemistry Lab Manual.

4.5 Book Published:

- Dr.Chatia Naga Babu, **Dr.G.Kanthimathi**, Dr.Shobha Thakur Dr.Ashima Sharma published a book entitled “ **A TextBook of Engineering Chemistry** “(First Edition)' in AGPH Publication with ISBN -978-81-19025-16-9’ on February 2023 (https://www.amazon.in/dp/8119025164?ref=myi_title_dp)

5. Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title Of the event	Organized by	Date	
			From	To
1.	International Symposium on Advanced Manufacturing for Polymeric Materials(AMPM2 4)	KMUTNB, Bangkok, Thailand	24.05.2024	24.05.2024
2.	HOW TO USE THE NEXT CHAT GPT	Institute for Educational Research and Publication (IFERP	15.02.2024	15.02.2024
3.	QuillBot: An Effective Writing Too	Central Library and Research Council (RIT)	28.03.2024	28.03.2024
4.	Tetrapods based Smart Materials for Advanced Technologies	Department of Physics, School of Sciences and Humanities, SR University, Warangal	29.04.2024	29.04.2024
5.	A Journey from Ferrites to Batteries	Department of Physics, School of Sciences and Humanities, SR University, Warangal	01.06.2024	01.06.2024
6.	Green nanocomposites for water treatment for the removal of trace organic contaminants	Department of Physics, School of Sciences and Humanities, SR University, Warangal	05.06.2024	05.06.2024

7.	Research Methodology and Pedagogy of Writing, Project Funding	Department of Science and Humanities, N.H.Patel College of Education, Gujarat	29.01.2024	06.02.2024
8.	Recent Trends of Advanced Functional Materials	Department of Physics, Velammal College Of Engineering and Technology (Autonomous) Madurai	25.03.2024-28.03.2024	01.04.2024
9.	UHV-II: Universal Human Values – Understanding Harmony and Ethical Human Conduct	AICTE	15.04.2024.	20.04.2024
10.	One-day National level online workshop on "Journal Paper Writing	Department of Electronics and Communication Engineering in association with RIT-Research and Development Centre	10.02.2023	10.02.2023
11.	INUP- i2i Familiarization Workshop on Nanofabrication Technologies'	Indian Institute of Technology, Bombay	23.01.2023	25.01.2023
12.	One day Workshop on POSH cell awareness programme	Anna university chennai at Tirunelveli Anna University Regional campus	03.02.2023	03.02.2023
13.	National Seminar on Materials Science and Engineering (NSME-2023)	SRM Institute of Science and Technology, Ramapuram	27.10.2023	27.10.2023.
14.	Online lecture entitled "How do we re-design an existing curriculum with the CDIO framework	RIT-IQAC , Ramco Institute of Technology, Rajapalayam	06.06.2023	06.06.2023
15.	One-Week International Workshop on “Application of Nanoscience in Multidisciplinary Fields	Department of Science and Humanities, Periyar Maniammai Institute of Science and Technology	07.03.2022	11.03.2022
16.	Silicon Crystal Growth for Photovoltaic Applications	SSN Research Centre, SSN Institutions, Chennai, India & Nagoya University, Nagoya	07.01.2022	07.01.2022

Updated as on 06.06.2024

17.	New Vistas in Chemistry And Its Applications	Department of Chemistry Kongu Engineering College	08.04.2022	09.04.2022
18.	Thermoelectric Materials and Applications	SSN Research Centre, SSN Institutions, Chennai	24.08.2022	25.08.2022
19.	INUP - i2i Familiarization Workshop on Nanofabrication Technologies	IISc Bangalore	12.09.2022	14.09.2022
20.	2nd Indian Summer School on Crystal Growth (ISSCG-2022)	SSN Research Centre, SSN Institutions, Chennai, Tamil Nadu	16.05.2022	21.05.2022
21.	Computational Modeling in Chemistry, Biology and Materials'	Department of Applied Chemistry Cochin University of Science and Technology	22.09.2021	28.09.2021
22.	QIP on "Thermoelectric Material and its Applications"	IISC, Bangalore	13.5.2019	17.05.2019
23.	Two-Day National Conference on Materials for Sustainable Development	Department of Chemistry, Ramco Institute of Technology, Rajapalayam	11.01.2019	12.01.2019
24.	VLAB Faculty Meet	IIT PALS	08.10.2021	08.10.2021
25.	International Seminar on Emerging Trends and Practices in Environmental Conservation	Raj Rishi Govt. Autonomous College	05.06.2022	06.06.2022
26.	Introduction to Electrochemical Energy storage devices	Department of Physical Sciences, Institute of Science and Humanities (S&H), Saveetha School of Engineering (SSE), Saveetha University(SIMATS), Thandalam, Chennai	30.05.2022	30.05.2022
27.	Nanotechnology in Forestry research	Sri Ramakrishna College of Engineering Coimbatore	29.07.2022	29.07.2022
28.	Nano structured Materials for Photoelectrochemical	Department of Physics, Velammal Institute of	14.05.2022	14.05.2022

Updated as on 06.06.2024

	Transformations and Electrochemical Energy Storage Applications	Technology, Panchetti, Chenna		
29.	Electrochemical Biosensors in Food and Agriculture	Department of ECE, Materials and MEMS LAB , Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam	27.04.2022	27.04.2022
30.	International Convention for prevention of marine pollution from ships (MARPOL)	Department of Marine Engineering, AMET Deemed to be University, Chennai	22.04.2022	22.04.2022
31.	Current Trends in NanoMaterials (CTNM- 2022)	PG and Research Department of Physics (DST-FIST Sponsored) Sri Sarada College for Women (Autonomous), Salem	29.03.2022	29.03.2022
32.	Virtual International Webinar on “ MATERIALS - MAKE THE WORLD ”	IQAC & PG Department of Chemistry, Sri Kumara Gurupara Swamigal Arts College, Srivaikuntam, Tamil Nadu	23.03.2022	23.03.2022
33.	Trends in Modern Molecules and Materials Discovery	Department of Chemistry, Koneru Lakshmaiah Education Foundation, Guntur, AP	26.02.2022	26.02.2022
34.	Empowering Diversity in Science , IUPAC GWB-2022	Department of Chemistry Kamala Nehru Mahavidyalaya, Nagpur, Association of Chemistry Teachers (ACT), Department of Chemistry, Kalasalingam Academy Of Research and Education (KARE), International Union of Pure & Applied Chemistry (IUPAC)	16.02.2022	16.02.2022
35.	International Webinar on Chemistry Education	The Association of Chemistry Teachers, Mumbai, Department of Chemistry, Kamla	04.02.2022	05.02.2022

Updated as on 06.06.2024

		Nehru Mahavidyalaya, Nagpur, and Govt. Madhav PG Science College Ujjain		
36.	International Webinar on “ RAMAN SPECTROSCOPY AND ITS APPLICATIONS IN MATERIAL SCIENCE ”	Department of Chemistry, Sethu Institute of Technology (Autonomous) Virudhunagar, Tamilnadu, India	28.01.2022	28.01.2022
37.	Electric Vehicles Performance Driven by Nanoscale Materials as Key Players	Centre of Excellence for Energy Research, Sathyabama Institute of Technology, Chennai on behalf of International Energy Day	14.12.2021	14.12.2021
38.	one day International Webinar on “Emerging Materials in Chemistry”	Research Department of Chemistry, Kamaraj College, Thoothukudi	23.10.2021	23.10.2021
39.	Multifunctional Materials and its applications	Department of Physics & Chemistry, Sona College of Arts & Science, Salem	20.10.2021	20.10.2021
40.	Nanoporous Activated Carbon for Energy Storage and Energy Conversion	PG & Research Department of Physics, NMSSVN College, Nagamalai, Madurai, Tamilnadu	13.10.2021	13.10.2021
41.	Prospectives of Thermoelectric Materials	Department of Physics C.Kandaswami Naidu College for Men, Chennai	11.10.2021	11.10.2021
42.	Nanomaterials – Current Trends and Future Applications	Department of Physics C.Kandaswami Naidu College for Men, Chennai	11.10.2021	11.10.2021
43.	International Webinar on “ Materials Science (IWOMS - 2021) ”	Research Centre of Physics, Fatima College Chennai	01.10.2021	01.10.2021
44.	Functional Materials for Heterogeneous Catalysis	Department of Physics, Kumaraguru College of Technology, Coimbatore	29.09.2021	29.09.2021

45.	Light-Matter Interactions and Characterization Techniques	Department of Physics, St.Xaviers College Tirunelveli	19.08.2021	19.08.2021
46.	Recent Advances in Solid State Chemistry and Allied Sciences	Department of Chemistry, School of Physical Science, CUK	16.08.2021	17.08.2021
47.	Enhancing, Clean, Green & Smart Learning Spaces in and around Campus	IUCEE Academic & Industry Experts	March 2021	April 2021
48.	Lead Halide Perovskites: Challenges and Opportunities in Light Emission Application	Department of Physics, SRM IST, Ramapuram Campus, Chennai	14.08.2021	14.08.2021
49.	Recent Advances in Nanoscience and Nanotechnology	Biotechnology and Physics, Rathinam College of Arts and Science, Coimbatore	12.08.2021	13.08.2021
50.	One Day Webinar titled "Nanoindentation: From Metals, Ceramics, Composites, and Space Sciences	Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai	13.08.2021	13.08.2021
51.	Analytical spectrometry Expertise- Atomic/Optical	B.S.A. Crescent Institute of Science and Technology, Chennai	07.08.2021	07.08.2021
52.	One Day Workshop on "Magnetic Nanoparticles in Future Applications. (MNFA-19)	Physics Department, MepcoSchlenk Engineering College, Sivakasi	29.03.2019	
53.	One day Training Workshop on How to get your Research Published in High Impact (Q1) Journals	Department of Chemical Engineering, SSN College of Engineering, Chennai	16.02.2019	
54.	Participated "Workshop on Principles and Applications of Transmission Microscopy"	SRM Institute of Science and Technology, Kattankulathur	27.11.2018	28.11.2018

55.	Two –day National Conference on “Science, Technology and Innovation, Application and Transfer for Development Endeavors	Wollega University Nekemte, Ethiopia	22.06.2018	23.06.2018
56.	Three days training programme on “Art of Counselling”	Ramco Institute of Technology, Rajapalayam	19.06.2018	21.06.2018
57.	Second International Conference on Advances in New Materials (ICAN-2018)	Department of Inorganic Chemistry, University of Madras, Chennai	8.06.2018	9.06.2018
58.	Recent Trends in Nanobiosensors	Department of Inorganic Chemistry, University of Madras	22.02.2018	23.03.2018
59.	QIP on "Powder X-Ray Diffraction: Theory, Practical and Applications"	IISc, Bangalore	14.5.2018	18.05.2018
60.	Two Day workshop on “Writing research Papers, Citation Analysis, Plagiarism, Getting Patent & Copyright”	Ramco Institute of Technology, Rajapalayam	29.06.2018	30.06.2018
61.	Seven Days FDTP On GE 6351 Environmental Science and Engineering	Department of Chemistry, Anna University	16.06.2017	23.06.2017
62.	Second National Conference on Innovations in Engineering, Science and Technology, March 2017	Ramco Institute of Technology, Rajapalayam	24.03.2017	25.03.2017
63.	National Conference on Innovations in Engineering, Science and	Ramco Institute of Technology, Rajapalayam	06.03.2015	07.03.2015

	Technology, March 2015			
64.	International Conference on Magnetic Materials and Applications (ICAMAGMA- 2015)	VIT,Vellore	02.12.2015	04.12.2015
65.	3 rd National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS-2014)	Department of Physics, Kalasalingam University	28.02.2014	01.03.2014
66.	Third National Conference on Advanced Functional Materials and Applications (NCAFMA -2014)	Department of Chemistry, Kalasalingam University	21.03.2014	22.03.2014
67.	International Conference on Advances in New Materials (ICAN 2014)	Department of Inorganic Chemistry, University of Madras, Chennai	20.06.2014	21.06.2014
68.	Chennai Chemistry Conference 2013 A National Seminar on Recent Trends in Chemistry		08.02.2013	10.02.2013
69.	Second National Conference on Advanced Functional Materials and Applications (NCAFMA-2013)	Department of Chemistry & Centre for Nanotechnology, Kalasalingam University	22.03.2013	23.03.2013
70.	International Conference on Emerging Trends in Chemical Sciences	Chemistry Division, School of Advanced Sciences, VIT university, Vellore	05.12.2013	07.12.2013
71.	National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS -2013)	Kalasalingam Universit y	01.03.2013	02.03.2013
72.	Participated “Workshop on Introduction to Latex”	Kalasalingam University	06.02.2012	

Updated as on 06.06.2024

73.	International Conference on Recent Trends in Advanced Materials	VIT university, Vellore	20.02.2012	22.02.2012
74.	International Conference on Advanced Nano Materials (ANM 2012)	Indian Institute of Technology Madras, India.	17.10.2012	19.10.2012
75.	International Conference on Advanced Materials and its Applications (ICAMA -2011)	Multifunctional Materials Research Centre, Department of Physics & Department of Chemistry, Kalasalingam University	04.03.2011	05.03.2011
76.	International Conference on Advanced Materials ICAM - 2011	PSG College of Technology, Coimbatore	12.12.2011	16.12.2011
77.	Chennai Chemistry Conference -2011	Chennai Chemistry Conference -2011, IIT Madras	11.02.2011	13.02.2011
78.	International Conference on NanoScience and Nanotechnology (ICNN 2011)	Coimbatore Institute of Technology, Coimbatore jointly with Center for Research and Advanced Studies of IPN-Mexico	06.07.2011	08.07.2011
79.	National Conference on Advanced Functional Materials and Applications	Department of Chemistry/Centre Nanotechnology Kalasalingam University	16.12.2011	17.12.2011
80.	National Seminar on “Research and Consultancy Services”	Kalasalingam University	30.12.2011	
81.	Participated One-day Course on Nano Science and Technology	IIT, Madras	25.04.2010	
82.	Seminar on “Current and Future Radiation Research between India and Japan”	Department of Physics, Kalasalingam University	5.02.2009	
83.	I st International Conference on Structured		06.04.2009	08.04.2009

Updated as on 06.06.2024

	Materials and Nano composites ICNM -2009			
84.	Seminar on “Concepts of Lithium Ion Battery”	Department of Physics, Kalasalingam University	03.09.2009	
85.	“Theoretical and Chemical Sciences” (TACS 2008)	Department of Chemistry, Annamalai University,	22.02.2008	23.02.2008

6.Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Titleof the event	Organized by	Date	
			From	To
1.	International Conference in Advanced Materials and its applications	Department of Chemistry, Kalasalingam University, Krishnan Koil.	4.3.2011	5.3.2011
2.	National Conference on Advanced Materials and Applications	Department of Chemistry and Centre for Nanotechnology Kalasalingam University, Krishnan Koil	16.12.2011	17.12.2011
3.	Recent Trends in Green Chemistry	Department of Chemistry, Ramco Institute of Technology	11.08.2018	11.08.2018
4.	National Conference on Materials for Sustainable Development	Department of Chemistry, Ramco Institute of Technology	11.01.2019	12.01.2019
5.	One-day workshop on “Recent Trends in Green Chemistry	Department of Chemistry, Ramco Institute of Technology, Rajapalayam	11.08.2018	

6.	ISTE sponsored National Conference on Department of Chemistry, Ramco Institute of Technology, Rajapalayam 11.1.2019 12.1.2019 Updated as on 5.6.2024 Materials for Sustainable Development	Department of Chemistry, Ramco Institute of Technology, Rajapalayam	11.1.2019	12.1.2019
7.	International Web Conference on Smart Engineering Technologies 2020	Ramco Institute of Technology, Rajapalayam	26.06.2020	27.06.2020
8.	National Web Conference on Challenges and Innovation in Engineering and Technology 2021	Ramco Institute of Technology, Rajapalayam	19.03.2021	20.03.2021
9.	One Week Online Faculty Development Program on "Synthesis, Characterization and Applications of Novel Materials"	Department of Physics and Chemistry, Ramco Institute of Technology, Rajapalayam	02.08.2021	06.08.2021
10.	One-day Research Webinar on "Drafting Impactful Research Articles, Project Proposals & Patents"	Department of Physics and Chemistry, Ramco Institute of Technology, Rajapalayam	4.9.2021	-
11.	Guest Lecture on "Boiler Corrosion"	Department of Chemistry, Ramco Institute of Technology, Rajapalayam	03.12.2021	08.12.2021
12.	One Day Symposium on "Advanced Materials for Sustainable Future "	One Day Symposium on "Advanced Materials for Sustainable Future "	8.1.2022	
13.	International Conference on Smart Technologies and Applications - 2022	Ramco Institute of Technology, Rajapalayam	11.03.2022	12.03.2022

14.	Seminar on “IPR in Sustainable Development”	Department of Chemistry, Ramco Institute of Technology, Rajapalayam	14.02.2023	14.02.203
15.	International Conference on Sustainable Technology in Civil Engineering and Applied Sciences	Department of Civil Engineering and Science Humanities, Ramco Institute of Technology, Rajapalayam	24.03.2023	25.03.2023
16.	Webinar on “ Bio Plastics as alternatives to Synthetic Plastics for Environmental Sustainability”	Department of Chemistry, Ramco Institute of Technology, Rajapalayam	02.06.2023	

7. Online Courses

sno	Course title	University
1.	Introduction to Physical Chemistry	Manchester University, UK
2.	Nanotechnology: A Maker’s Course	Duke University, North Carolina State University
3.	Renewable Energy: Fundamentals and Job Opportunities	University at Buffalo
4.	Nanotechnology and Nanosensors - Part-1	Israel Institute of Technology
5.	Nanotechnology and Nanosensors, Part 2	Israel Institute of Technology
6.	Matrix Algebra for Engineers	<u>The Hong Kong University of Science and Technology</u>
7.	Lithium Based Batteries	Arizona State University (Coursera)
8.	The Chemistry of Life	Kyoto University, Japan
9.	Introduction to Chemistry-Reactions and Ratios	Duke University, USA.
10.	Introduction to Chemistry- Structures and solutions	Duke University USA.
11.	Environmental Protection and Sustainability	Ben-Gurion University of the Negev
12.	Energy, Environment, and Everyday Life	University of Illinois at Urbana-Champaign
13.	Introduction to solid state chemistry	MIT,USA

14.	Structure of Materials, Part 1: Fundamentals of Materials Structure	MIT, USA
15.	Air Pollution – A Global Threat to our Health	University of COPENHAGEN

8. Patents filed/awarded :

S.N o.	Title	Application No.	Filed date	Status	Inventor(s)
1.	Method For The Synthesis of Mixed Nanoscale Composite Using Low Cost Precursors	202221003745	22/01/2022	Published on 18/02/2022	Dr. Wasudeo Balaji Gurnule, Dr. G. Kanthimathi , Dr. B. Kalyani, Dr. R. Sivakumar, . Dr. Kurapati Swarnalatha
2.	Infant Warmer	367143-001	18.01.2023	Granted	S.Ravikumar, Usha Batra, Jaskiran Kaur, Ravi PratapSingh, G.Kanthimathi , Lakshmi Thangavelu, Monica Apte, Tapan Kumar Sahu
3.	A Volatile Components Collection Unit with Incineration of Crude Plant Materials	202341001510	07/01/2023	Published on 13/01/2023	B.Prathibha B S, G.Kanthimathi , F.Sujata F Harlapur, F. Shantabasavareddi Harlapur,S

9. Membership in Professional societies : IIST

- ✓ ISTE Life Time Membership
- ✓ IEFRP Professional Membership

Updated as on 06.06.2024

10. Awards, Recognition & Achievements: Nil

- ✓ Received Supervisor recognition from Anna University with Reference No. 2670030

Copyright Granted: C. Suchetha, Dr. Sunil Kr Pandey, **G. Kanthimathi**, MS. Shweta pandey, Ramesh Chandra Panda. Sarita Vijayvergiya **granted** a copyright entitled "IOT Based Hypocaust System" on 11.05.2022 (Diary Number: 4062/2022-CO/L)

- ✓ **Highly cited article:** This certificate is awarded to Registered charity number: 207890. "Novel 1,3,5-triazine-based pyrazole derivatives as potential antitumor agents and EGFR kinase inhibitors: synthesis, cytotoxicity, DNA binding, molecular docking and DFT studies" New Journal of Chemistry, 2021, 45, 13909, M. S. Raghu, C. B. Pradeep Kumar, M. K. Prashanth, K. Yogesh Kumar, B. S. Prathibha, **G. Kanthimathi**, Siham Abdulrahman Alissa, Hanan Abdulrahman Alghulikah and Sameh M. Osman, New Journal of Chemistry, 2021, 45, 13909, **For publishing research in the top 10% of highly cited works from the Royal Society of Chemistry Journals**
- ✓ T. Vigneswari*, **G. Kanthimathi**, Lakshmanan Muthulakshmi, presented a paper entitled "**Superparamagnetic properties of iron oxide nanoparticles using vitex negundo leaf extract by green synthesis method and its antimicrobial activity against wound pathogen**", 2023 International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023) organized by KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, February 9-10, 2023.
- ✓ Received "Certificate of Appreciation" from Ramco Institute of Technology for achieving 100% result for the subjects Engineering Chemistry-I & II and Environmental Science and Engineering in 12 times.
- ✓ Received incentive Rs. 20,000/- for publication from 2020 to till date

Guest Lecture:

- **Dr. G. Kanthimathi** delivered a guest lecture on "**Integrated Approach In Science and Technology for a Sustainable Future**" conducted by Department of Chemistry Shree Chandrababhu Jain College, Minjur, Chennai on **3 days Online webinar for the celebration of National Science Day 2022** on 01.03.2022
- **Dr. G. Kanthimathi** delivered a guest lecture on "**Path Towards Embedding Lab Safety**" for the **One-day workshop on Lab Safety & Management** organized by Department of Biotechnology School of Bio, Chemical and Processing Engineering Kalasalingam Academy of Research and Education on 20 April 2022.
- **Dr. G. Kanthimathi, ASP** delivered a guest lecture on "**Safety Measures in Chemistry Laboratory**" on the occasion of Five Days International Virtual Seminar on Chemistry-2023 (18.02.2023 to 24.02.2023) organized by Department of Chemistry Shree Chandrababhu Jain College, Minjur, Chennai in association with IQAC in collaboration with ASIAN INSTITUTE OF FAMILY MANAGED BUSINESS on 22.02.2023.

CHAIRPERSON

- **Dr. G. Kanthimathi** acted as a Chairperson for the **IUCEE Mini-Symposium on "Smart, Clean, Green, and Sustainability"** under the theme **Water Management** on 05 Feb 2022.
- **Dr. G. Kanthimathi (ASP)** acted as a Session Chair for "Third International Conference on Science, Technology and Management – ICSTM 2023" organized by Global Conference HUB, KCT Tech Park, Coimbatore, Tamil Nadu India on 27.08.2023.

Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties):

Acted as a Reviewer

S.No.	Name of the Journal
1.	IUCSEE Mini-Symposium on "Smart, Clean, Green, and Sustainability
2.	Material Today Proceedings, Elsevier
3.	Material Science Forum
4.	European Journal of Medicinal Chemistry

- ✓ Coordinator in Centre For Women Welfare (2018-2022) Fine Arts & Cultural Club (2022-till date)
- ✓ Convener for POSH Cell
- ✓ Convener for Internal Compliant cell
- ✓ Time Table in charge (2021-Till Date)
- ✓ Faculty Member in Charge for preparation of College Magazine
- ✓ Class Adviser
- ✓ Coordinator for NAAC Criteria-I
- ✓ Coordinator for NBA-X
- ✓ Domain coordinator
- ✓ RIT RC Member
- ✓ Newsletter In charge
- ✓ ISO Internal Auditor
- ✓ Mentor