



Department of Chemistry

Sri GVG Visalakshi College for Women

SV Mills Post. Udumalpet

Tiruppur District - 642128.

Phone: 90477 96909

Email: tjbhuvana@gmail.com

Objective		Seasoned Assistant Professor with seven years of experience in teaching undergraduate Chemistry Courses. Interested in Physical Chemistry and pertained Research area. Actively participate in continued learning through conferences and professional research. One of my objectives is to partake in the pedagogical success of an institution by putting my best efforts into helping students achieve their best academic performance. As an Assistant Professor, I aim for continuous learning and development of my teaching capabilities.
Skills & Abilities		<ul style="list-style-type: none">• Passion for teaching Physical Chemistry and Preparation of Learning Materials.• Experienced in handling basic Scientific Instruments.• Able to use Digital Platforms for Teaching, Assessing and Grading.• Experienced to IQAC Works.
Work Experience		Assistant Professor, Department of Chemistry, Sri GVG Visalakshi College for Women, Udumalpet. 10.02.2014 - Present <ul style="list-style-type: none">• Assisted in teaching chemistry to undergraduate students.• Prepared syllabi, reading materials, tests, and quizzes.• Conducted examinations and performed student assessments.• Monitored and recorded student's progress and attendance.

		<ul style="list-style-type: none"> • Mentored students to address concerns and provided extra assistance to them as needed. • Participated in Internal Administrative Tasks, Club Activates and other Campus events. • Published papers in International Journals.
Education	2013- 2014	Post-Doctoral Fellow Institute & University: Madurai Kamaraj University, Madurai, Tamilnadu. Topic: Amino acid-diimine based Re(I) and Ru(II) complexes as biosensors.
	2008 - 2012	Doctor of Philosophy – Ph. D. Institute & University: Madurai Kamaraj University, Madurai, Tamilnadu. Thesis Topic: Synthesis, Characterization, Photophysical and Protein Binding Properties of Luminescent Heteroleptic Rhenium(I)-tricarbonyl Polypyridine Complexes.
	2007 - 2008	Master of Philosophy – M. Phil. Institute & University: Madurai Kamaraj University, Madurai, Tamilnadu. Project: Rhenium(I) tricarbonyl Complexes Containing Vitamin B3 like Ligands: Synthesis, Characterization, Photophysics and Solvatochromism.
	2005-2007	Master of Science – M. Sc. Institute: Bishop Heber College, Trichy, Tamilnadu. University: Bharathidasan University, Tamilnadu. Project: Effect of 2-hydroxybenzaldehyde semicarbazone on the Corrosion of Aluminium in Alkaline Medium.
	2002-2005	Bachelor of Science – B. Sc. Institute: Holy Cross College, Trichy, Tamilnadu. University: Bharathidasan University, Tamilnadu.
Publications		Journals - 05 Review – 02 Books
Journal Publications		<ol style="list-style-type: none"> 1. <i>Non-conventional photoactive transition metal complexes that mediated sensing and inhibition of amyloidogenic aggregates</i> E Babu, J Bhuvaneshwari, K Rajakumar, V Sathish, P Thanasekaran, <i>Coordination Chemistry Reviews</i>, 2021, 428, 213612. (Impact Factor: 15.367).

		<p>2. <i>Transition metal complexes-based aptamers as optical diagnostic tools for disease proteins and biomolecules</i> E Babu, J Bhuvanewari, PM Mareeswaran, P Thanasekaran, Hsien-Ming Lee, Seenivasan Rajagopal, <i>Coordination Chemistry Reviews</i>, 2019, 380, 519-549. (Impact Factor: 15.367).</p> <p>3. <i>A selective, long-lived deep-red emissive ruthenium (II) polypyridine complexes for the detection of BSA</i> E Babu, P Muthu Mareeswaran, S Singaravadivela, J Bhuvanewaria, S Rajagopal, <i>Spectrochimica Acta Part A</i>, 2014, 130, 553-560. (Impact Factor: 2.129).</p> <p>4. <i>The Switching of a Rhenium(I) Complex from Turn-off to Turn-on Sensor System through Protein Binding.</i> J Bhuvanewari, P Muthu Mareeswaran, K Anandababu, S Rajagopal, <i>RSC Adv.</i>, 2014, 4, 34659-34668. (Impact Factor: 3.708).</p> <p>5. <i>Rhenium(I)-Based Fluorescence Resonance Energy Transfer Probe for Conformational Changes of Bovine Serum Albumin.</i> J Bhuvanewari, A Fathima, S Rajagopal, <i>J. Photochem. Photobiol. A</i>, 2012, 227, 38-44. (Impact Factor: 2.291).</p> <p>6. <i>Protein Binding Studies of Luminescent Rhenium(I)-Diimine Complexes.</i> J Bhuvanewari, P Muthu Mareeswaran, S Shanmugasundaram, S Rajagopal, <i>Inorg. Chim. Acta</i>. 2011, 375, 205-212. (Impact Factor: 2.041).</p> <p>7. <i>Photoluminescence Electron-Transfer Quenching of Rhenium(I)-Complexes with Organic Sulfides.</i> M Rajkumar, J Bhuvanewari, M Velayudham, E Rajkumar, S Rajagopal, <i>J. Fluoresc.</i> 2011, 21, 1729-1737. (Impact Factor: 1.667).</p>
Certificates		<ul style="list-style-type: none"> • Orientation Course - 01 • Refresher Course - 02 • Online Course - 02 • Faculty Development Programme - 18 • Workshop (Online) - 06 • Seminar / Conference - 09
Orientation Programme		<ul style="list-style-type: none"> • UGC-Human Resource Development Centre, Madurai Kamaraj University, Madurai, from 26.05.2016 to 22.06.2016.
Refresher Course		<ul style="list-style-type: none"> • UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore from 09.11.2017 to 29.11.2017.

		<ul style="list-style-type: none"> • (ONLINE) UGC-Human Resource Development Centre, University of Madras, Chennai, from 27.01.2021-09.02.2021.
Online Courses		<ul style="list-style-type: none"> • Publons Academy Practical Peer Review Course on 23 Sep 2019 offered by Web of Science. • Swayam (ARPIT) Online Refresher Course in Chemistry for Higher Education Faculty, proctored examination held on 30.03.2019 by Sri Guru Tegh Bahadur Khalsa College, Delhi
Certificate of Excellence (Online)		<ul style="list-style-type: none"> • Certificate of Excellence on Ethics, Science Direct Researcher Academy, 01 May 2020. • Certificate of Excellence on Finding the Right Journal, Science Direct Researcher Academy, 01 May 2020. • Certificate of Excellence on Fundamentals of Publishing, Science Direct Researcher Academy, 30 April, 2020. • Certificate of Excellence on Book Writing, Science Direct Researcher Academy, 29 April, 2020. • Certificate of Excellence on Technical Writing Skills, Science Direct Researcher Academy, 28 April, 2020. • Certificate of Excellence on Writing Skills, Science Direct Researcher Academy, 27 April, 2020. • Certificate of Excellence on Fundamentals of Manuscript Preparation, Science Direct Researcher Academy, 26 April, 2020. • Certificate of Excellence on Research Collaborations, Science Direct Researcher Academy, 25 April, 2020. • Certificate of Excellence on Research Data Management, Science Direct Researcher Academy, 25 April, 2020. • Certificate of Excellence on Funding, Science Direct Researcher Academy, 24 April, 2020. • Certificate of Completion on Standing up for Science, Science Direct Researcher Academy, 21 April, 2020.
Faculty Development Programmes		<ol style="list-style-type: none"> 1. Two Weeks Online FDP on Pedagogy and Research Methods Organized by HRDC and IQAC of AMET University, Chennai during 24.05.2021-06.06.2021. 2. National Level Short Term Course on "Graphic Design" for Teacher organized by St. Mary's College, Thoothukudi during 26.05.2021-31.05.2021. 3. DBT Star College Scheme funded Two day National level online Faculty Development Programme on "Lab on Chip and Lab on Paper" organized by Department of Zoology,

Sri G.V.G. Visalakshi College for Women, Udumalpet, 10.05.2021 - 11.05.2021.

4. **30 Days Online Training Programme** on “Introduction to Industry 4.0.” organized by Digital Career and Entrepreneurship Hub of Department of Computer Applications, MHRD BU RUSA Phase II BEICH, Bharathiar University during 23.12.2020 - 10.02.2021.
5. One Week Faculty Development Program on Learning Management System (MOODLE) For Online Teaching-Learning organized by Guru Angad Dev Teaching Learning Centre, S.G.T.B.Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD during 11.10.2020 - 17.10.2020 **(under CAS of UGC and AICTE)**.
6. One Week Faculty Development Program on Development of Teacher's e-kit and MOOCs in Four Quadrant Format of e-Content organized by Guru Angad Dev Teaching Learning Centre, S.G.T.B. Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD during 12.09.2020 - 20.09.2020 **(under CAS of UGC and AICTE)**.
7. Online National FDP on ICT Tools for Technology Infused learning V2.0 (Module 2) organized by Saveetha Engineering College, Chennai during 29.06.2020 - 04.07.2020.
8. Online National FDP on ICT Tools for Technology Infused learning V2.0 (Module 1) organized by Saveetha Engineering College, Chennai during 22.06.2020 - 27.06.2020.
9. One Week Virtual International FDP on Advance Topics in Chemical Sciences organized by PG Department of Chemistry, NGM college, Pollachi, 15.05.2020 to 21.05.2020.
10. Online FDP on Teaching, Learning and Evaluation through Google Classroom organized by Department of Mathematics, Sri GVG Visalakshi College for Women, Udumalpet. 13.05.2020.

		<ol style="list-style-type: none"> 11. Online FDP Hands on exposure in GChem Paint and Libre Office Suite Writer organized by Department of Chemistry, D.K.M. College for Women, Vellore in association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt. of India 04.05.2020 to 10.05.2020. 12. Five Days FDP on Covid-19 Pandemic: Strategies for Effective Work – Life balance of Academicians organized by Department of Management Studies, Karpagam College of Engineering, Coimbatore. 04.05.2020 to 08.05.2020. 13. Three Days National Online FDP on Quality Enhancement in Higher Education Institutions - Future Vision organized by IQAC, St. Ann’s College for Women, 04.05.2020 to 06.05.2020. 14. Three days FDP on Teaching, Learning and Evaluation organized by APA Arts College for Women, Palani, 04.05.2020 to 06.05.2020. 15. Seven days FDP (Webinar Series) on NAAC organized by IQAC, Sri Gvg Visalakshi College for Women, Udumalpet 03.05.2020 to 09.05.2020. 16. Online FDP on Moodle Learning Management System organized by Department of Computer Science, Kaypeeyes College of Arts & Science, Kotagiri, The Nilgiris association with Spoken Tutorial Project, IIT Bombay, MHRD, Govt., of India 29-04-2020 to 01-05-2020 17. Online FDP on Strategies for Engaging Students in Learning organized by Department of Nutrition and Dietetics, Vellalar College for Women, Erode 27.04.2020. 18. Online National FDP on Engendering the Next Generation Educators organized by Nehru Arts and Science College, Coimbatore 23.04.2020 to 28.04.2020.
<p>Workshops Attended</p>		<ol style="list-style-type: none"> 1. Five Days Online International Workshop on Creating Interactive E-Resources and Gamification organized by UTA, Puducherry, India during 17.05.2021-21.05.2021. 2. One Day Online National Workshop (equivalent to National Workshop) on “ICT Tools for Chemistry Teachers organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on

		<p>Teachers and Teaching (PMMMNMST) of Ministry of Education on 22.02.2021.</p> <ol style="list-style-type: none"> 3. Five Days Online Workshop on Creating Digital e-Content organized by Universal Teacher Association, Kallakurichi and Chinnaselam. 02.06.2020 to 06.06.2020. 4. National Online Workshop on Chemistry Practical organized by Sri RLT College of Science, Akola 17.05.2020. 5. Two Days National Level Online Workshop on Flipped Classroom learning tools organized by Arulmigu Palaniandavar Atrs College for Women, Palani and Unnat Bharat Abhiyan (C-36569) 15.05.2020 and 16.05.2020. 6. Five Days Online Workshop on Animation organized by UTA, Puducherry 14.05.2020 to 18.05.2020.
<p>Webinars Attended</p>		<ol style="list-style-type: none"> 1. National Webinar (equivalent to National Seminar) on Empowering Chemistry Teachers for 21st Century Higher Education, Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMST) of MHRD and St. John's College, Agra, 28.07.2021 - 29.07.2020. 2. Webinar Series on "Everyone Can Do Quality Research - Talk 04: From Research and Technology Innovation to Entrepreneurship, Knowledge Institute of Technology, Selam, 16.07.2020. 3. Webinar on Research Activities in Present World - Understanding interdisciplinary and International Approaches organized by Department of Chemistry, Sacred Heart College, Tirupattur. 01.05.2020. 4. Two days online certificate course on Elemental Arts: Evolution of Modern Periodic Table Department of Science and Humanities in Chemistry Domain organized by Sri Krishna College of Engineering and Technology, Coimbatore. 01.05.2020-02.05.2020. 5. Webinar on How to Use Turnitin Software for your Research "Turnitin Online on Campus" organized by Guru Nanak Institute of Management Studies in Association with Turnitin, Mumbai. 04.05.2020.

6. Webinar on An Introduction to Research In Chemistry organized by Department of Chemistry, Sri GVG Visalakshi College for Women, Udumalpet. 04.05.2020.
7. Webinar on Challenges in Integrating Nano Sensor to IoT Platform organized by Chennai Institute of Technology, Chennai 04.05.2020.
8. Weekly Webinar Series on Water Challenges During and Post Covid - 19 organized by ICCW and IIT Madras, 07.05.2020 to 28.05.2020.
9. Webinar on Look beyond what you can with IR imaging organized by Perkin Elmer, 08.05.2020.
10. Three Days National webinar on Creating Interactive e-Content organized by Tamilnadu Teachers Education University, Chennai in Association with UTA 19.05.2020 to 21.05.2020.
11. Webinar on Flipped Classrooms - the way forward! organized by Department of Chemistry, Bishop Heber College 21.05.2020.
12. Webinar on Optimal Use of Online research Tools for Academicians organized by Department of Chemistry and Research Cell, Sri GVG Visalakshi College for Women 23.05.2020.
13. National Webinar on How to Promote Online Teaching in Present Scenario Government Home Science organized by PG Lead College, MP 27.05.2020.
14. Webinar on Graduation to Career organized by Department of Chemistry, Sri GVG Visalakshi College for Women, Udumalpet. 11.06.2020.
15. International webinar on An Overview of Online Learning Eco Systems organized by IQAC, Nesamony Memorial Christian College, Marthandam 12.06.2020.
16. Webinar on Virtual Session on Mindfulness organized by Dr. MGR Educational and Research Institute, Chennai 23.06.2020.
17. Webinar on Calmness in the World of Chaos organized by SIIMS Pollachi in Association with Yogoda Sastanga Society of India 28.06.2020.

		<p>18. Webinar on Covid-19 Emerging Challenges organized by CDC, Sri GVG Visalakshi College for Women 23.04.2020.</p>
<p>Presentation in Conference / Symposium</p>		<ol style="list-style-type: none"> 1. Global Trends in Environmental Chemistry, Oct – 01 - 2015, Sri GVG Visalakshi College for Women, Udumalpet. <i>Metal Enhanced Luminescence from Ruthenium(II) Complexes in Solution by Silver Nanoparticles.</i> 2. National Symposium on Radiation and Photochemistry – 2015(NSRP - 2015), March 09 – 11, 2015, IIT, Kanpur. <i>Ruthenium(II)-polypyridyl complex as optical sensor for Anions: Synthesis, Characterization and Binding Studies.</i> 3. Emerging Trends in Frontiers of Chemistry, Dec-30-2014, Department of Chemistry, Sri GVG Visalakshi College for Women, Udumalpet. <i>Ruthenium(II) Complexes as Sensor for Anions.</i> 4. Recent Advances in Inorganic and Nano Chemistry, (RAINC 2010), Mar 29 – 30, 2010, Department of Inorganic Chemistry, Madurai Kamaraj University, Madurai, Tamil Nadu. <i>Luminescent Rhenium(I)- Complex as a Receptor for Anions through Amide Hydrogen Bonding.</i> 5. 3rd Asia Pacific Symposium on Radiation Chemistry, (APSRC 2010) and DAE BRNS 10th Biennial Trombay Symposium on Radiation & Photochemistry, (TSRP 2010), Sep 14 – 17, 2010, Lonavala, India. <i>Binding Studies of Luminescent Rhenium(I)-Complexes with Bovine Serum Albumin.</i> 6. School and Symposium on Advanced Biological Inorganic Chemistry, (SaBIC-2009), Nov 4 – 7, 2009, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai, India. <i>Protein Binding Studies of Luminescent Rhenium(I)-diimine complexes.</i> 7. Patent Awareness Program, Dec 4, 2009, Madurai Kamaraj University, Madurai. 8. Emerging Trends in Chemistry, ETC-2, Jul 24 – 25, 2008, Department of Chemistry, Cardmom Planters' Association College, Bodinayakanur, Theni, Tamil Nadu. <i>Rhenium(I) tricarbonyl Complexes Containing Vitamin B₃ Like Ligands: Synthesis, Characterization, Photophysics and Solvatochromism.</i> 9. Emerging Trends in Chemistry, Mar 9, 2006, Department of Chemistry, Jamal Mohamed College, Trichy, Tamil Nadu. <i>Inhibition of Corrosion of Mild Steel in HCl by 4-methyl-4'-N,N-dimethylaminoazobenzene.</i>

Club Activities	2021-2022	
	2020-2021	IQAC Member (Criterion III) Consultancy Cell Member
	2019-2020	IQAC Member (Criterion III)
	2018-2019	College Web Admin IQAC and NAAC Committee Member (Criterion IV) Examination Committee Member (Second Person) Institutional Innovation Cell (IIC) Member
	2017-2018	College Web Admin IQAC Member
	2016-2017	NSS Programme Officer
	2015-2016	NSS Co-opted Member
	2014-2015	NSS Co-opted Member
Others		Acted as judge at the Zonal Level Science Exhibition held at Srinivasa Vidyalaya Mat. Hr. Sec. School, Udumalpet on 08.09.2017.
Awards / Fellowship		<ul style="list-style-type: none"> • Best Performer Award by College (Continuously for two years, 2017-18 and 2018-19) • Prize money award for M. Sc. Chemistry • UGC – Postdoctoral Fellowship, India. • Rajiv Gandhi National Fellowship (RGNF), India (JRF and SRF).