||Jai Sri Gurudev ||

# B G S College of Engineering & Technology
# Mahalakshmipuram – 560086.

## RESUME

<table>
<tr><td>Name</td><td colspan="4">Dr. Vinay Kumar B</td></tr>
<tr><td>Date of Birth</td><td colspan="4">20/04/1982</td></tr>
<tr><td>Address</td><td colspan="4">Address: #458, Ground Floor, Venkatadri, Near BDA Sculpture Park, Banashankari 6th Stage, 1st Block, Bengaluru–560098, Karnataka.<br><br>Residential Address: Upstairs Akshaya Bakery, Head Post Office Road, Chitradurga - 577501<br><br>E-mail: dr.vkumar.bgscet@gmail.com; Mobile: +91-77951 07838<br><br>vinaybcta@gmail.com</td></tr>
<tr><td>Department / Discipline</td><td colspan="4">Chemistry</td></tr>
<tr><td rowspan="6">Educational Qualifications</td><td>Exam Passed<br>(Pl. Tick)</td><td>Institution | University</td><td>% & Class Obtained</td><td>Year</td></tr>
<tr><td>Degree:<br>B.Sc.</td><td>Kuvempu University</td><td>50%<br>Second Class</td><td>2004</td></tr>
<tr><td>PG:<br>M.Sc.,</td><td>Kuvempu University</td><td>65.6%<br>First Class</td><td>2007</td></tr>
<tr><td>Higher:<br>Ph.D.</td><td>Kuvempu University</td><td></td><td>2013</td></tr>
<tr><td>Others<br>PG Diploma</td><td>Kuvempu University</td><td>First Class</td><td>2005</td></tr>
<tr><td></td><td colspan="3"></td></tr>
<tr><td rowspan="4">Experience</td><td colspan="2">Nature of Experience</td><td colspan="2">No. of Years</td></tr>
<tr><td colspan="2">Teaching</td><td colspan="2">9 Years</td></tr>
<tr><td colspan="2">Research</td><td colspan="2">5 Years</td></tr>
<tr><td colspan="2">Total No. of years of Experience</td><td colspan="2">14 Years</td></tr>
<tr><td rowspan="5">Experience Details</td><td>Designation</td><td colspan="2">Institution/ Organization</td><td>Duration</td></tr>
<tr><td>Assistant Professor</td><td colspan="2">RNS Institute of Technology</td><td>9 Years 7 Months</td></tr>
<tr><td>Project Fellow</td><td colspan="2">Kuvempu University</td><td>3 Years</td></tr>
<tr><td>Executive</td><td colspan="2">Biocon PVT Ltd.,</td><td>1 Tear</td></tr>
<tr><td></td><td colspan="2"></td><td></td></tr>
<tr><td>Professional bodies Membership details</td><td colspan="4">-</td></tr>
<tr><td>Other Professional Experience</td><td colspan="4">.-</td></tr>
<tr><td>Areas of Research Interest & Guidance</td><td colspan="4">Nano Catalyst, Green Chemistry, Bio-inorganic Chemistry, Organic transformations</td></tr>
<tr><td>Distinctions/Awards Received</td><td colspan="4">UGC Major Research Project Fellow (2008-2011)</td></tr>
</table>

**National/ International WorkShops/ Seminars /Conferences Attended**

1. **Participated in one week AICTE sponsored online Short Term Training Program on "Solid Waste- A Hidden Treasure in Reality" organized by Dept. of Civil Engg. V. P. Dr. P. G. Halakatti College of Engineering and Technology, Vijayapur from 23rd to 28th Nov, 2020.**
2. **Participated in Five days Faculty Development Programme on "Recent Trends in Engineering materials, Nano Science and Nano Technology" conducted by Department of Science & Humanities, Global Academy of Technology, Bangalore from 9th to 13th Nov, 2020.**

3. **Participated in one day Webinar on "Fraud Messages and fraud mails" conducted by NSS Department, Faculty of Engineering & Technology, Jain(Deemed-to-be University), Bengaluru on 30th Oct, 2021.**
4. **Participated in two days International e-Conference on "Applied Materials and Technology - 2020" an approach for Trans-Disciplinary research, organized by KLE Society's S. Nijalingappa College, Bengaluru on 9th & 10th Oct, 2020.**
5. **Participated in Five days International Faculty Development Programme on "Recent Trends in Chemial Sciences" conducted by Department of Chemistry, Nitte Meenakshi Institute of Technology, Bangalore from 21st to 25th Sep, 2020.**
6. **Participated in one day International Webinar on "The need to move towards Inter and Trans-disciplinarity Research for Impactful Innovations" organized by Dept. of Chemistry, JSS Academy of Technical Education, Bengaluru held on 24th Sep, 2021.**
7. **Participated in one day International Webinar on "Applications of Mass Spectroscopy in Chemistry and Beyond" organized by Dept. of Chemistry, BMS Institute of Technology & Management, Bengaluru on 19th Sep, 2020.**
8. **Participated in two days Online International Conference on "Multidisciplinary Innovations in Science and Technology (MIST-2020)" organized by The Oxford College of Science, Bengaluru on 18th & 19th Sep, 2020.**
9. **Participated in an Online Lecturer on the Occasion of Bharath Rathna Dr. Sir. M. Visvesvaraya Jayanthi, organized by Swadeshi Vijnana Andlana, Karnataka on 15th Sep, 2020.**
10. **Participated in One-week Faculty Development Programme on "Material Synthesis and Characterization for Device Applications" organized by Department of Physics and Chemistry, NMIT, Bengaluru from 31st Aug-5th Sep 2020.**
11. **Participated in Three days International Faculty Development Programme on "Engaging Minds and Empowering Success in Modern Research Era" organized by Department of Post-Graduate Studies & Research in Commerce, Govinda Das College, Surathkal from 26th Aug-28th Aug, 2020.**
12. **Participated in six days Faculty Development Programme on "Materials and Medicinal Chemistry - 2020 (MMC)" organized by Department of Chemistry, Don Bosco Institute of Technology, Mysore Road, Bengaluru from 10th -15th Aug 2020.**
13. **Participated in Three days International Online International Conference on "Emerging SmartMaterials in Applied Chemistry)" organized by Department of Chemistry, KIIT, Odisha from 10th-12th Aug, 2020.**
14. **Participated in one day short term training program on "Hands on Training: Virtual Laboratory" under IITM PALS VLABB (Chemistry Experiments) organized by Ramco Institute of Technology, Rajapalayam on 8th Aug, 2020.**
15. **Participated in one day short term training program on "Hands on Training: Virtual Laboratory" under IITM PALS VLABB (Civil Experiments) organized by Ramco Institute of Technology, Rajapalayam on 3rd Aug, 2020.**
16. **Participated in VTU-TEQIP 1.3 sponsored staff enrichment program on "Effective Management of Institutional E Waste" organized by the Department of Chemistry, GSSS Institute of Engineering & Technology for Women, Mysuru on 30th July 2020.**
17. **Participated in one day International Webinar on "Third Generation Biofuel, Algae Biodiesel- A Potential Future Fuel" organized by Dept. of Basic Science, Sri Krishna Institute of Technology, Bengaluru on 24th July 2020.**
18. **Participated in one day Webinar on "Multifunctional Applications of Nanometal Oxides" hosted by Basic Science and Humanities, EWIT, Bengaluru on 29th July 2020.**
19. **Participated in one day National Webinar on "Advanced Materials and Nanotechnology" hosted by Department of Physics of Islamiah College, Vaniyambadi, Tamilnadu held on 22nd July, 2020.**
20. **Participated in one day International Webinar on "Principle and Application of Green Chemistry in Organic Synthesis and Analytical Sciences" hosted by Department of Applied Science of KIET, Ghaziabad held on 20th June, 2020.**
21. **Participated in one day Webinar on "Penetration of Solar Energy in Home Appliances " hosted by Department of Science and Humanities of Hindustan College of Engineering, Coimbatore held on 17th June, 2020.**
22. **Participated in one day International Webinar on "From Minerals to Futuristic Functional Materials" hosted by Dept. of Chemistry, St. Joseph's College, Bengaluru on 10th June, 2020.**
23. **Participated in one day International Webinar on "Nanomaterials and its Applications" hosted by Dept. of Chemistry, Brindavan College of Engineering, Bengaluru on 05th June, 2020.**
24. **Participated in one day International Webinar on "Current Status of Li-ion Battery Technology" hosted by Dept. of Chemistry, Don Bosco Institute of Technology, Bengaluru on 05th June, 2020.**
25. **Participated in one day Webinar on "Exploring the Nanoworld" Department of Science and Humanities, ACS College of Engineering, Bangalore on 29th May 2020.**
26. **Participated in one day National Webinar on "Two Dimensional Materials for Diverse Applications" hosted by Cambridge Institute of Technology, Bengaluru on 23rd May, 2020.**

27. **Participated in one day short term training program on "Faculty Awareness Programme on Outcome Based Eduaction (OBE) and NBA Accreditation" organized by Sinhgbad Institute of Technology and Science, Pune on 6th May, 2020.**
28. **Participated in three days workshop on "Emerging Trends in Applied Sciences" organized by Department of Basic Science, SJB Institute of Technology, Bengaluru on 22nd – 24th Jan, 2018.**
29. **Participated in seven days MHRD & TEQIP-II sponsored Faculty Development Programme on "Emerging Trends in Chemical and Environmental Engineering (ETCEE-14)" organized by Department of Chemical Engineering, National Institute of Technology, Calicut on 29th June-5th July, 2014.**
30. **Participated in one day National Seminar on "Pharmaceutical Chemistry and Technology" held at Dept. of Pharmaceutical Chemistry, Kuvempu University, Post –Graduate Center, Kadur. Chikmagalur on 2nd May, 2012.**
31. **Participated in one day National conference on "Science and Technology New Inventions: Opportunity and Challenges" held at Dept. of Studies in Chemistry, Mangalore University, Mangalagangothri, Mangalore, India on 28th- 29th January 2012.**
32. **Participated in four days "Orientation Programme for Translators in Kannada" organized by National translation mission central institute of Indian languages and Prasaranga, Kuvempu University, held at Kuvempu University, Shankaraghatta on 22nd -25th February, 2012.**
33. **Participated in four days "Kuvempu University Silver Jubilee Exhibition" organized by Committee for Popularization of Science Education, Kuvempu University, Jnana Sahyadri, held at Kuvempu University, Shankaraghatta during 16th to 19th February, 2012.**
34. **Presented a poster on 'Triazole based tetra-aza macrocyclic transition metal complexes: Synthesis, characterization, antimicrobial activity and DNA photonuclease studies', during 26th & 27th April 2012. Two days National conference on "Imapct of Chemical biology on society NCICBS-2012". Organized by the Dept. of P.G. Studies and Research in Industrial Chemistry, Kuvempu University, Shankaraghatta**
35. **Presented a poster on "Synthesis and Biological Evaluation of New Tetra-aza Macrocyclic Scaffolds Constrained Oxadiazole, Thiadiazole and Triazole Rings" at the International symposium on "Challenges in Drug Discovery Programme–2011 (ISCDDP-2011)", during 16-17th February, 2011 held at Karnataka State Open University, Manasagangotri, Mysore.**
36. **Presented a poster on "Synthesis, DNA-binding, DNA-photonuclease profiling and antimicrobial activity of novel tetra-aza macrocyclic transition metal complexes constrained by thiadiazole", at the "International Conference on Synthetic and Structural Chemistry (ICSSC – 2011)", during 8-10th December, 2011 in the Dept. of Studies in Chemistry, Mangalore University, Mangalagangothri, Mangalore, India.**
37. **Participated in three days workshop on "Personality Development and Communication Skill" organized by SC/ST development cell held at Kuvempu University, Shankaraghatta on 22nd -24th March 2011.**
38. **Participated in Two day National Seminar on "Frontier Areas in Chemical Science and Nanotechnology" held at Dept. of P.G. Studies and Research in Industrial Chemistry, Kuvempu University, Shankaraghatta, on 1st and 2nd May, 2010.**
39. **Participated in the three days National Workshop on "National Workshop on Advances in Co-ordination Chemistry", held at NITK, Surathkal during 8, 9 & 10th January, 2009. Organized by the Dept. of Chemistry.**
40. **Participated in two days national conference on "Chemistry and Molecular Nanotechnology for Industry and Society" held at Dept. of Industrial Chemistry, Kuvempu University, Shankaraghatta on 16th and 17th Jan 2009.**
41. **Presented a poster on 'ZnO nanoparticle as catalyst for efficient green one-pot synthesis of coumarins through Knoevenagel condensation', during 31st and 1st July, 2009. Two days National conference on "The Emerging Area in Chemistry NACEAC-2009". Organized by the Dept. of Studies in Chemistry Manasagangotri, University of Mysore, Mysore.**

**No. of Papers Presented/ Books Published**

1. Fabricate, advancement, molecular docking and DNA reactivity of preferred divalent metal(II) complexes attributing (E)-N'-((6-hydroxybenzo[d]oxazol-5-yl) methylene)isonicotinohydrazide. Patil Pratiba, Virupaxappa S. Betageri, M. S. Latha, B. Vinay Kumar, & C. C. Vidyasagar. Nucleosides, Nucleotides & Nucleic Acids, (2022) DOI: 10.1080/15257770.2022.2081704
2. Punica granatum pericarp extract catalyzed green chemistry approach for synthesizing novel ligand and its metal(II) complexes: Molecular docking/DNA interactions. G.T. Vidyavathi, B. Vinay Kumar, Anjanapura V. Raghu, T. Aravinda, U. Hani, H.C. Ananda Murthy, A.H. Shridhar. Journal of Molecular Structure, 1249, 2022, 131656. https://doi.org/10.1016/j.molstruc.2021.131656.
3. Graphene: A Multifunctional Nanomaterial with Versatile Applications H. C. Ananda Murthy, Suresh Ghotekar, B. Vinay Kumar, Arpita Roy, Advances in Materials Science and Engineering, vol. 2021, Article ID 2418149, 8, 2021. https://doi.org/10.1155/2021/2418149.

4. Advancement in specific strand scission of DNA and evaluation of in-vitro biological assessment by pharmacologically significant tetraaza macrocyclic metal complexes constrained by triazole. B. Vinay Kumar, H. C. Ananda Murthy, T. Aravinda, K. N. Harish & H. S. Bhojya Naik, Nucleosides, Nucleotides & Nucleic Acids, 40:9, (2021) 896-913, DOI: 10.1080/15257770.2021.1962536

5. DNA binding activity of novel discotic phenathridine derivative,Marichandran Vadivel, T. Aravinda, K. Swamynathan, B. Vinay Kumar, Sandeep Kumar, Journal of Molecular Liquids, Volume 332, 2021, 115798,https://doi.org/10.1016/j.molliq.2021.115798.

6. Development of cost effective, solar light active $Cu1\text{-}xCaxFe_2O_4$ nanocomposite catalysts for water treatment.K.N. Harish, H.S. Bhojya Naik, K.S. Anantharaju, Sathish Reddy, T. Aravinda, B. Vinay Kumar, M. Dinamani. Materials Today: Proceedings, Vol 46, Part 13, 2021, Pages 6056-6063. https://doi.org/10.1016/j.matpr.2021.01.972.

7. Cashew nutshell liquid catalyzed green chemistry approach for synthesis of a Schiff base and its divalent metal complexes: molecular docking and DNA reactivity. G. T. Vidyavathi, B. Vinay Kumar, T. Aravinda & U. Hani Nucleosides, Nucleotides & Nucleic Acids, 40:3 (2021) 264-287. DOI: 10.1080/15257770.2020.1868502

8. Zirconia-Cu(I) stabilized copper oxide mesoporous nano-catalyst: Synthesis and DNA reactivity of 1,2,4-oxadiazole-quinolinepeptidomimetics-based metal(II) complexes T. Aravinda, B. Vinay Kumar, M. S. Raghu, L. Parusharam, Srilatha Rao Nucleosides, Nucleotides and Nucleic Acids, Publisher: Taylor & Francis. 39:4 (2020) 630-647.

9. $Fe_3O_4$ nanoparticle supported Ni(II) complexes: A magnetically recoverable catalyst for Biginelli reaction. D. Girija, H.S. Bhojya Naik, B. Vinay Kumar, C.N. Sudhamani, K.N. Harish, Arabian journal of chemistry 12 (3), 2019, 420-428, DOI: https://doi.org/10.1016/j.arabjc.2014.08.008.

10. DNA binding, photoactivated DNA cleavage and cytotoxic activity of Cu(II) and Co(II) based Schiff-base azo photosensitizers.S M Pradeepa, H S Bhojya Naik, B Vinay Kumar, K Indira Priyadarsini, Atanu Barik, M C Prabhakara Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy Volume 141, 2015, Pages 34-42.

11. Synthesis and Characterization of Cobalt(II), Nickel(II) and Copper(II)-based potential photosensitizers: Evaluation of their DNA binding profile, cleavage and photocytotoxicity S.M. Pradeepa, H.S. Bhojya Naik, B. Vinay Kumar, K. Indira Priyadarsini, Atanu Barik, S. Jayakumar Inorganica Chimica Acta. Volume 428, 24 March 2015, Pages 138-146. DOI:10.1016/j.ica.2014.12.032.

12. A New Green, Recyclable Magnetic Nanoparticles Supported Amino Acids as Simple Heterogeneous Catalysts for Knoevenagel Condensation D. Girija, Halehatty S. Bhojya Naik, B. Vinay Kumar, C. N. Sudhamani. Letters in Organic Chemistry - Bentham Science Volume 10, Issue 07, August 2013, pages 468-477.

13. Metal based photosensitizers of tetradentate Schiff base: Promising role in anti-tumor activity through singlet oxygen generation mechanism S.M. Pradeepa, H.S. Bhojya Naik, B. Vinay Kumar, K. Indira Priyadarsini, Atanu Barik, T.R. Ravikumar Naik, M.C. Prabhakar. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. Volume 115, November 2013, Pages 12–21.

14. Environmentally benign synthesis of NO donar Schiff base and their Copper(II) complex: DNA binding and Photonuclease Studies. K.R. Sangeetha Gowda, H.S. Bhojya Naik, B. Vinay Kumar, C.N. Sudhamani. American Journal of PharmTech Research. Volume 3, Issue 6, November 2013, pages 607-621.

15. Synthesis, antimicrobial, DNA-binding and photonuclease studies of Cobalt(III) and Nickel(II) Schiff base complexes K.R. Sangeetha Gowda, H.S. Bhojya Naik, B. Vinay Kumar, C.N. Sudhamani, H.V. Sudeep, T.R. Ravikumar Naik, G. Krishnamurthy. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. Volume 105, 2013, Pages 229-237.

16. Cobalt(II), Nickel(II) and Copper(II) complexes of a tetradentate Schiff base as photosensitizers: Quantum yield of 1O2 generation and its promising role in anti-tumor activity. S.M. Pradeepa, H.S. Bhojya Naik, B. Vinay Kumar, K. Indira Priyadarsini, Atanu Barik, T.R. Ravikumar Naik. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. 101, 2013, Pages 132-139.

17. Synthesis, DNA-binding, DNA-photo nuclease profiling and antimicrobial activity of novel tetra-aza macrocyclic transition metal complexes constrained by thiadiazole B. Vinay Kumar, H.S. Bhojya Naik, D. Girija, N. Sharath, S.M. Pradeepa, H. Joy Hoskeri. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy. 94, 2012, Pages 192-199.

18. Synthesis and Biological Evaluation of New Tetra-aza Macrocyclic Scaffolds Constrained Oxadiazole, Thiadiazole and Triazole Rings. B. Vinay Kumar, H. S. Bhojya Naik, D. Girija, N. Sharath, H. V. Sudeep, H. Joy Hoskeri. Arch. Pharm. Chem. Life Sci. Publisher: Wiley Interscience. Volume 345, Issue 3, March 2012, Pages 240-249. DOI:10.1002/ardp.201100181

19. Metal Complexes of New Tetra-aza macrocyclic Constrained Oxadiazole Ring as Subunits: Synthesis, DNA Binding and Photonuclease Activity B. Vinay Kumar, H. S. Bhojya Naik, D. Girija, N. Sharath. Macromol. Sci. Part A Pure. & Appl. Chem. Publisher: Taylor & Francis. 49, Issue 2, 2012, 139-148. DOI: 10.1080/10601325.2012.642210

20. ZnO nanoparticles as catalyst for efficient green one-pot synthesis of coumarins through Knoevenagel condensation B. Vinay Kumar, H.S. Bhojya Naik, D. Girija, B. Vijaya Kumar. Journal of Chemical Sciences, Publisher: Springer. Volume 123, Issue 5, September 2011, Pages 617-623.

21. Synthesis, DNA Binding and Photonuclease Activity of new tetraaza Macrocyclic Constrained Isoxazole rings as sub unit and its Metal complexes. N. Sharath, H.S. Bhojya Naik, and B. Vinay Kumar Nucleosides, Nucleotides and Nucleic Acids, Publisher: Taylor & Francis. Volume 31, 2012, Pages 1-17.

22. In Vivo prophylactic effects of oleanolic acid isolated from chloroform extract of Flaveria trinervia against ethanol induced liver toxicity in rats. H. Joy Hoskeri, V. Krishna, B. Vinay Kumar, A. H. Shridar, K. Ramesh Babu, M. S. Sudarshana. Archives of Pharmacal Research, 2012, 35, 1803-1810.
23. Synthesis, Antibacterial, Molecular Docking, DNA Binding and Photonuclease Activity of Quinoline Isoxazoles. N. Sharath, H. S. Bhojya Naik, B. Vinay Kumar, H. Joy Hoskeri. Der Pharmacia Sinica, Publisher: Pelagia Research Library. Volume 3, Issue 2, 2012, Pages 254-265.
24. Cerium oxide nanoparticles – a green, reusable and highly efficient heterogeneous catalyst for the synthesis of Polyhydroquinolines under solvent free conditions. D. Girija, Halehatty S. Bhojya Naik, C. N. Sudhamani, B. Vinay Kumar. Archives of Applied Science Research, Publisher: Scholars Research Library.3, Issue 3, 2011, Pages 373-382.
25. Synthesis of functionalized Iron Oxide Nanoparticle with Amino Pyridine Moiety and Studies on their Catalytic behavior. D. Girija, Halehatty S. Bhojya Naik, B. Vinay Kumar, C. N. Sudhamani . American Chemical Science Journal, Publisher: Science Domain international. Volume 1, Issue 3, December 2011, Pages 97-108.
26. Antibacterial, Molecular Docking, DNA Binding and Photocleavage Studies on Novel Heterocyclic Pyrazoles N. Sharath, H. S. Bhojya Naik, B. Vinay Kumar, H. Joy Hoskeri. British Journal of Pharmaceutical Research, Publisher: Science Domain international.Volume 1, Issue 3, July 2011, Pages 46-65.
27. Synthesis, DNA binding, and oxidative cleavage studies of Fe(II) and Co(III) complexes containing bioactive ligands. B. Sreekanth, G. Krishnamurthy, H. S. Bhojya Naik, T. K. Vishnuvardhan, B. Vinay Kumar, N. Sharath. Nucleosides, Nucleotides and Nucleic Acids, 30, 2, 2011, 83-96. DOI: 10.1080/15257770.2010.547544.
28. Benzo[h]quinoline based Macrocyclic Copper(II), Cobalt(II) Complexes: Synthesis, Characterization and Light induced DNA Cleavage Studies H. R. Prakash Naik, H. S. Bhojya Naik, D. S. Lamani, T. Aravinda, B. VijayaKumar, B. Vinay Kumar, M. Yogesh, N. Sharath, P. N. Prashanth Kumar. Macromol. Sci. Part A Pure. & Appl. Chem. 46(8), 2009, 790-795.

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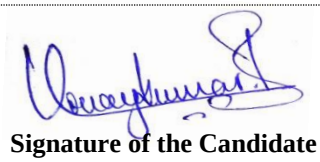
| **Additional Information** (Patents, if any) | -NA- |



**Date: 30/12/2022** **Signature of the Candidate**