

CURRICULUM VITAE OF PROFESSOR LAKINANI VAIKUNTA RAO

NAME: DR.L.VAIKUNTA RAO

DESIGNATION: PROFESSOR & HEAD, DEPT. OF CHEMISTRY. DEAN UGC AFFAIRS, RESEARCH & DEVELOPMENT.

AFFILIATION: JB INSTITUTE OF ENGINEERING AND TECHNOLOGYJB.SINCE APRIL 2024.

PREVIOUSLY WITH GITAM Institute of Science
GITAM (Deemed to be) University
NAAC “A+” Grade
MHRD “I” Grade University
Visakhapatnam-530045,
Andhra Pradesh

CONTACT NUMBERS : Mobile: 91-9949848105,6300725313.

E-mail Address :lvraochemistry@gmail.com

DATE OF BIRTH : 10-03-1964

ACADEMIC QUALIFICATION:

➤ **M. Sc: Andhra University ,1990 (Chemistry)**

➤ **Ph.D.: Andhra University, 1997 (Chemistry)**

Thesis: “Analytical redox applications in low nitric acid as new medium”.

➤ **Post doc: Singapore Institute of Technology, Singapore.**

PROFESSIONAL EXPERIENCE:

➤ **Professor & HOD, Chemistry at JB Institute of Engineering and Technology, Hyderabad since 2024 to till date.**

- **Associate Professor at GITAM Institute of Science, Gandhi Institute of Technology and Management (GITAM) Deemed to be University, Visakhapatnam , 2013-2024.**
- **Assistant Professor at GITAM Institute of Science, Gandhi Institute of Technology and Management (GITAM) Deemed to be University, Visakhapatnam, 2007 to 2013.**
- **Assistant Professor at GMR Institute of Technology, Rajam, Srikakulam, 2005 to 2007.**
- **Junior Lecturer in Chemistry at Dock Labour Board Junior College, Visakhapatnam (1994-2005).**
- **Lecturer in Chemistry at Sri Gowri Degree & PG College, Visakhapatnam from 1993-1994.**

- Lecturer in chemistry on part time basis from 1998 to 2005 at Narayana junior college ,Vikas Junior college, Vizag defence academy ,Visakhapatnam.

ADMINISTRATIVE EXPERIENCE:

Worked as the Co-ordinator ,the Assistant Director , the Deputy Director - UGC Affairs & Research Activities of Gandhi Institute of Technology and Management (GITAM) a Deemed to be University, popularly known as GITAM University Visakhapatnam, from 2007 to 2020 .Joined at the JB Institute of Engineering and Technology, Hyderabad in the month of April 2024.

- Professor & Head, Dept. of Chemistry. Dean UGC Affairs, Research & Development at JB Institute of Engineering and Technology,Hyderabad. since April 2024.
- Chairman, Board of Studies, Dept. of Chemistry, JB Institute of Engineering and Technology, Hyderabad, since April 2024.
- Assistant Director - UGC Affairs & Research Activities, GITAM Deemed to be University, from 2012 to 2013
- Deputy Director - UGC Affairs & Research Activities, GITAM Deemed to be University, from 2013 to 2020 .
- Member, Board of Studies, Dept. of Chemistry, GITAM Deemed to be University.
- External examiner of I& 11/IV BE/B. Tech practical examinations of College of Engineering, Andhra University, Visakhapatnam.
- External examiner of BEM, M. Sc (Environmental Studies) practical examinations of College of GIS,GITAM Deemed to be university, Visakhapatnam
- Research guide in the Dept. of Chemistry, GITAM Deemed to be University,Visakhapatnam

RESEARCH EXPERIENCE: 15 years

RESEARCH INTERESTS:

- Pharmaceutical Chemistry
- Organic Synthesis
- Environmental Chemistry
- Redox Chemistry

RESEARCH PROJECTS UNDERTAKEN:

Research Projects completed

S. No	Particulars	Awarding agency	Year	Cost (Rs. Lakhs)
1.	Seasonal ground water quality indexing parameters in north coastal districts of Andhra Pradesh and its remedial approaches (PI)	UGC	2013-2017	11.08

2.	Sustainable water quality management in greater Visakhapatnam municipal corporation area, Andhra Pradesh (CO-PI)	DST	2012-2016	23.7
3.	A longitudinal study of risk factors associated with e GFR in Prakasam district , AP, INDIA . (CO-PI)	ICMR	2018-2020	61.22
4.	Ecosystems services Assessment in Sacred curves of Eastern Ghats of Andhra Pradesh. (CO-PI)	MOEFCC	2014-2017	33.8
5	Environmental Impact Assessment of Beach Sand Mining for Rare Earth (CO-PI)	Project of Trimex Ores Pvt. Ltd., Srikakulam	2010-2011	8.0

COLLOBORATIVE RESEARCH WORK

1.Collaborative research work was conducted with IISC,Bangalore.(2012-2016)

2.Collaborative research work was conducted with Andhra University,Visakhapatnam.(2014-2017).

PUBLICATIONS:

1.Dr. L. Vaikunta Rao, Dr. Pravin R.K. shirsagar, Dr. Kuan Tak Tan, Dr. Sivaneasan Bala Krishnan, Dr. Shrikant V. Sonekar, Sayali Zade, The Assessment of Water Quality Forecasting Using AI-Based ML Algorithms, Metall. Mater. Eng. Vol 31 (4) 2025 p. 942-961.

2.B. Raghavaiah, Lakinani Vaikunta Rao, Vijaya Laxmi, V. Ravi Kumar, Kollapudi Sreenivasulu, Amit Gupta, Air Quality Index Prediction Based on Different Technique in Machine Learning in New Delhi, **Journal of Information Systems Engineering and Management** 2025, 10(37s) e-ISSN: 2468-4376.

3. CHIRANJEEVI YAKKANTI, VAIKUNTA RAO LAKINANI,*, SATHISH KUMAR BURRA , SIMHACHALAM GORLE , R VENKATESWARLU and RAGHUNADH AKULA, Efficient one-pot synthesis of 3-arylmethyl indoles promoted by (Bu₃Sn)₂MoO₄ as a reusable catalyst, J. Chem. Sci. (2024) 136:54.

4. Yakkanti Chiranjeevi,Sujeet Gaware, Rana Chatterjee, Jayshree Solanke, Rapolu Venkateshwarlu, L. Vaikunta Rao, Gorle Simhachalam, Rambabu Dandela, Iodine-Promoted Cascade Redox Cyclization to Access 2-Arylbenzothiazoles Using Elemental Sulfur, *Journal of Heterocyclic Chemistry*, 2024; 61:1789–1794 <https://doi.org/10.1002/jhet.4902>

5.Yakkanti Chiranjeevi,Lakinani Vaikunta Rao,* Akula Raghunadh, and Apuri Satyender*, Highly Efficient Catalysis of Pyridinium p-Toluenesulfonate (PPTS): Two Facile One-Pot Protocols for the Synthesis of 2,3-Disubstituted Quinazolinone Scaffolds. *ChemistrySelect*, (2024)doi.org/10.1002/slct.202401584,

6. V. N. Chandra Sekhar, Gorle Simhachalam, L. Vaikunta Rao, A. V. Dhanunjaya Rao, Madhavaram Shankar & Akula Raghunadh, An efficient four-component protocol for synthesis of poly-substituted pyridines with SiO₂ as a robust recyclable catalyst. , Synthetic Communications, (2024)DOI: 10.1080/00397911.2024.2320398.

7.Ashok Ettam, L. Vaikunta Rao,* Guniganti Balakishan, Rama Krishna Kancha,Sai Chairitha Mullaguri, and K. Shiva Kumar*,Synthesis of Novel Benzopril-Derived Trizole Compounds Assisted by Ultrasound: In Vitro and In Silico Analysis for Potential Anticancer Properties, Chem. Biodiversity 2024, doi.org/10.1002/cbdv.202401235

8.Satish Kumar Burra, Vaikunta Rao Lakinani, Raghunadh Akula & Chiranjeevi Yankkanti .Green and eco-friendly synthesis of quinolone substituted indolyl-4H-chromenes via C–C bond formation. SYNTHETIC COMMUNICATIONS, VOL. 54(3), 207– 215 (2024) .

9.ASSESSMENT OF NAGAVALI RIVER WATER QUALITY IN AND AROUND SRIKAKULAM DISTRICT FOR AGRICULTURE AND IRRIGATION ,CH.V. Saikrishna, L. Vaikunta Rao,□ and D. Mallikarjuna Rao.ISSN: 0974-1496 | e-ISSN: 0976-0083.RASĀYAN Journal of Chemistry., Vol. 17, No.1, 2024.

10.Chittala V. Subrahmanyam, Battula Sreenivas Rao, Pamerla Muralidhar, Lakinani Vaikunta Rao, Bhukumuzi Gumbi, Suresh Maddila. Green Synthesis of novel pyrano [2,3-C] pyrazole-5-carbonitrile analogues by using Fe 5 (PW 10 V 2 O 40) 3 nanocatalyst through a one-pot Knoevenagel condensation and Michael addition mechanism. Inorganic ChemistryCommunications 159 (2024) 111906.

11.Ashok Ettamand L. Vaikunta Rao,A Sustainable Protocol for C=C Bonds Synthesis UsingWater Extract of Annona squamosa Fruit Shell Ash (WEASF) ,Chemistry Select 2023, 8, e202302684, doi.org/10.1002/slct.202302684.

12.D. V. M. KRISHNA REDDY, P. B. SANDHYA SRI,, K. A. K. RAJ KUMAR and L. VAIKUNTA RAO,Ultrasonic Studies in the Binary Mixtures of O-Chlorophenol with Salicylates at Different Temperatures ,2023,Oriental Journal Of Chemistry 39(2):340-355 .

13. Chiranjeevi Yakkanti, Vaikunta Rao L, Nagaraju Kerru, Simhachalam Gorle, Shankar Madhavaram, Raghunadh Akula & Sandeep V. H. S. Bhaskaruni.One-Pot Multi-Component Synthesis of Polysubstituted Pyridines Using DBU-SiO₂ as a Robust Recyclable Catalyst.2023, Polycyclic Aromatic Compounds.

14. R Chandrasekhar, Y Satyanarayana, Ch Ramakrishna, L Vaikunta Rao, Jaspreet Kaur, Surinder K Mehta.A Case Study of the Effect of Seawater Intrusion on the Water Quality Index of the Indian Southeastern Coastal Region, ACS ES&T Water, 2023.

15. Simhachalam Gorle,V. N. Chandra Sekhar,L. Vaikunta Rao,K. Raghavendra Rao&Raghunadh Akulaa , 2Glucose as an eco-friendly reducing agent for a one-pot multicomponent synthesis of Quinoxalines ,Synthetic Communications , Volume 53(5), 2023 .

16. Gorle Simhachalam, L Vaikunta Rao, Dasi Samsonu, Akula Raghunadh. Iodine-Catalyzed One-Pot Multicomponent Synthesis of Pyrrolo/indolo [1, 2-a] quinoxalines Substituted with ortho-Carbonyl Alkyl Benzoates/Benzoic Acids via Spirocyclic Ring Opening, *Synlett*, 2023,
17. D.V.M. Krishna, Sandhya Sri P.B , KAK Raj Kumar ,L.Vaikuntha Rao*Reddy. Ultrasonic Velocities, Densities And Excess Thermodynamic Properties Of Binary Mixtures Of O - Chlorophenol With Higher Alkanols FROM 303.15 TO 318.15K. Vol. 12 (2)2022 .
18. Simhachalam Gorle, Vaikunta Rao L, Chiranjeevi Y, Dhanunjaya Rao A. V, Ramamohan Mekala, Krishnaji Tadiparthi & Akula Raghunadh; A simple and efficient synthesis of imidazoquinoxalines and spiroquinoxalinones via pictet-spengler reaction using Wang resin, *Synthetic Communications*, 52, 218-228 (2022).
19. Simhachalam Gorle, Vaikunta Rao Lakinani, Chiranjeevi Yakkanti, Venkateshwarlu Rapolu, Sridhar Regati, Krishnaji Tadiparthi & Akula Raghunadh (2021): A Simple and Efficient [(n-Bu₃Sn)₂MO₄]_n Catalyzed Synthesis of Quinazolinones and Dihydroquinazolinones, Polycyclic Aromatic Compounds.
20. R. Chandrasekhar, L.Vaikunta Rao, Assessment of Groundwater Quality in Coastal Zone Mandalas Of Srikakulam District By Using Principal Component Analysis , *International Journal of Advanced Research in Engineering and Technology(IJARET)*, 12(8), 23-26, (2021).
21. R. Chandrasekhar, L.Vaikunta Rao, Groundwater Quality Monitoring in A Coastal Area Using Water Quality Index And Principal Component Analysis: A Case Study of Srikakulam District India, *International Journal of Civil Engineering and Technology (IJCIET)* , 10(9), 353-364 (2019).
22. Vaikuntarao Lakinani, and Subrahmanyam Lanka. Characterization, Molecular Docking, and in vitro Evaluation of Triazole Derivatives as Potential Anti-Cancer Agents, *International Journal of Pharmacy and Biological Sciences*, 11 (2), 161-171 (2021).
23. P.Pavitra , L.Vaikunta Rao, D Mallikarjun Rao ,Ch. Ramakrishna. A study on ground water using water quality in industrial area in Visakhapatnam , *Indian j of Environmental protection*, 40, ISSN - 0253-7141, (2020).
24. Tirumalesh Keesari , Anandasankar Roy, Diksha Pant, Uday Kumar Sinha, P V Nagendra Kumar , L Vaikunta Rao. Major ion, trace metal and environmental isotope characterization of groundwater in selected parts of Uddanam coastal region, Andhra Pradesh, India, *J. Earth Syst. Sci.* 20, 12040-01467 (2020).
25. K.Tirumala Rao, L. Vaikunta Rao, V.V. Krishna Mohan Kandepi. A Validated RP-HPLC Method for Estimation of Related Compounds in Hydroxy Naproxen, *Asian Journal of Chemistry*, 32(5) 1158-1164 (2020).
26. K.Tirumala Rao, L. Vaikunta Rao, V.V. Krishna Mohan Kandepi. A Validated Rapid RP-UHPLC Method for Determination of Assay and Related Substances in TTBB, *International Journal of Research in Pharmacy and Chemistry*, 10(2) 224-237 (2020).
27. K.Tirumala Rao, L. Vaikunta Rao, V.V. Krishna Mohan Kandepi. A Novel Validated RP-UHPLC Method for Estimation of Assay and Related Substances in Meropenem. *Indian Journal of Chemistry* , 59 (A) 1148-1157 (2020).

- 28.K.Tirumala Rao, Lavikunta Rao, V.V. Krishna Mohan Kandepi. A Novel Validated UHPLC Method for Estimation of Assay and its related substances of Trichostatin-A, International Journal of Pharmacy and Pharmaceutical Sciences ,12(7) 51-58 (2020).
- 29.P.Pavitra , L.Vaikunta Rao, D Mallikarjun Rao ,Ch. Ramakrishna. Ground water quality study by using ionic ratios and water quality index in coastal area of Visakhapatnam, Andhra Pradesh, International Journal of Research and Analytical Reviews,6 , page no.961-972;2348-1269 (2019).
- 30.Akula Raghunadh,Krishnaji Tadiparthi,Suresh Babu Meruvaa,V. Narayana Murthya,L. Vaikunta Rao,U. K. Syam Kumar.Synthesis of Quinoxalin-2(1H)-ones and Hexahydroquinoxalin-2(1H)-ones via Oxidative Amidation–Heterocycloannulation ,Synopen, 10,1055/s-0040-1707203(2020).
- 31.T. Krishnaji, V. N. Murthy, A. Raghunadh, L. V. Rao. Simple and Efficient Amberlite 15-catalyzed Synthesis of Dihydroquinazolinones, Russian Journal of Organic Chemistry, 56 (8)1070-4280 (2020).
- 32.Subrahmanyam Lanka, Vaikuntarao Lakinani, Sagar Rao Kanaparthi, Siva Rama Rao Kakani, Synthesis of novel Bicaultamide related derivatives and their evaluation of biological activity, International Journal of Pharmacy and Biological Sciences, 9 (2) 2230-7605 (2019).
- 33.Subrahmanyam Lanka, Vaikuntarao Lakinani, Sagar Rao Kanaparthi, Siva Rama Rao Kakani . Design and Synthesis of Novel Molecular Scaffolds of Bicaultamide derivatives for the treatment of Prostate Cell Cancer , Research J. Pharm. and Tech, 12(11) 0974-360X (2019).
- 34.Paidi Raju Dannana, L. Vaikunta Rao , B. S. A. Andrews. A facile synthesis of pyrazole derivatives in neat WERSA, J. Indian Chem. Soc., 96,1439-1444 (2019).
- 35.P. Murali Krishna, L. Vaikuntarao, K. Ramakrishna ,V. Srinivasarao. Determination Of Ethyl 2-Chloroacetate as a Genotoxic Impurity In Nitrofurantoin By Gas Chromatography, Rasayan Journal of Chemistry, 12(1) 0974-1496 (2019).
- 36.D Mallikarjuna Rao, Ch. Ramakrishna, Y.Satyanarayana, L. Vaikunta Rao, P.V.Sivapullaiah. Assessment of ground water quality pollution due to industrialization in greater Visakhapatnam, Andhra Pradesh by using heavy metal pollution index, Journal for advanced research in applied sciences. 5(5)124-133, 2018.
- 37.Mallikarjuna Rao, Ch. Ramakrishna, Y. Satyanarayana, L. Vaikunta Rao, P.V. Sivapullaiah. Effect of ground water quality due to urbanization in greater Visakhapatnam, Andhra Pradesh, India. International Journal of Creative Research Thoughts. 6(2) 720-730 (2018).
- 38.6.Mallikarjuna Rao, P.Pavitra , L. Vaikunta Rao, Ch. Ramakrishna. The Effect of Ground Water due to Saltwater Intrusion in Coastal Tract of Visakhapatnam City, Andhra Pradesh. International Journal for Research in Applied Science & Engineering Technology 6(4) 591-600 (2018).
- 39.Mallikarjuna Rao , P.Pavitra , L. Vaikunta Rao, Ch. Ramakrishna. Assessment of Ground Water Quality Using Water Quality Index and Hydro Chemical Facies around Industrial Areas of Visakhapatnam, Andhra Pradesh, India. Journal of Environmental Science, Computer Science and Engineering & Technology. 7(2) 176-190 (2018).

- 40.V.Narayana Murthy, Satish P. Nikumbh, Krishnaji Tadiparthi, M. V. Madhubabu, Subba Rao Jammula, L. Vaikunta Rao*and Akula Raghunadh. Amberlite-15 promoted an unprecedented azaMichael rearrangement for one pot synthesis of dihydroquinazolinone compounds. RSC Advances. 8, 22276 – 22865 (2018).
- 41.P.Pavitra, D.Mallikarjuna Rao, L. Vaikunta Rao and Chinthala Ramakrishna. Ground water Quality Monitoring in a developing area using Water Quality Index and Principal Component Analysis: A Case study of Visakhapatnam, India. International Journal of Basic and Applied Sciences, 6(2), 47-54 (2017).
- 42.P.Pavitra, D.Mallikarjuna Rao, L. Vaikunta Rao and Chinthala Ramakrishna. An assessment of ground water quality in and around coastal region using hydro chemical ionic indices: A Case study of Visakhapatnam India, International journal of environmental sciences. 6(2) 41-52 (2017).
- 43.D Mallikarjuna Rao, P.Pavitra, L. Vaikunta Rao, Ch. Ramakrishna and Takela Necha Assessment of Ground Water Quality in Visakhapatnam by using Nemerow's Pollution Index and Water Quality Index Global Journal of Current Research. 5(2) 47-55 (2017).
- 44.D.MallikarjunaRao, Y.Satyanarayana, Ch.RamaKrishna, .V.Sivapullaiah L. VaikuntaRao 4 and Takela Necha1 Assessment of Urban Ground Water Quality in GVMC, Visakhapatnam using Hydrogeo chemical Facies and Statistical Methods Global Journal of Current Research. 5(2) 2320-2920(2017).
- 45.Subrahmanyam Lanka, Vaikuntarao Lakinani, Siva Rama Rao Kakani, Evaluation of anti-cancer activity on N-Substituted Tetrahydrocarbazoles. Int. J. of Pharmacy and Analytical Research. 6(2) 261-273 (2017).
- 46.Saripalli, K. Ramakrishna, V. R. Lakinani, K. M. Gandhi. A Validated ESI-LC-MS/MS Method for Quantification of METFORMIN Form Human Urine. International Journal of Pharmacy & Technology. 9(1) 28765-28777 (2017).
- 47.P.Muralikrishna, L. Vaikunta Rao, K. Ramakrishna. Quantification of Low level Isobutyl bromide as a genotoxic impurity in Febuxostat by Gas Chromatography. International Journal of Pharmacy & Technology. 9(1) 28758-28764 (2017).

48.K Tirumala Rao and L. Vaikunta Rao. "Rapid Stability-Indicating RRLC Method for Simultaneous Estimation of Irbesartan and Its Related Impurities." Indian Journal of Pharmaceutical Sciences. 78(2) 252-258 (2016).

49.Ramakrishna. Ch, Satyanarayana.Y, Mallikarjuna Rao. D, Sivapullaiah.P.V, Vaikunta Rao. L. Salt Water Intrusion Studies in GVMC Area, Visakhapatnam, Andhra Pradesh, India. International Journal of Earth Science and Engineering. 9(6), 2503-2511 (2016).

50.Eswara Rao Bammidi, Vaikuntarao Lakinani, and Pavitra Development and Validation of Stability indicating HPLC Method for Balsalazide in Bulk Drug Development, International Journal of Modern Chemistry and applied Science. 3(1)315-322 (2016).

51.V. Narayana Murthy Satish P Nikumbh S. Praveen Kumara Y. Chiranjeevi, L. Vaikunta Rao, Akula Raghunadh. A Simple Approach for the Synthesis of Fused Quinazoline-Based Tetracyclic Compounds via a Multicomponent Reaction Strategy, Synlett. 27(16) 2362-2367 (2016).

52.Subrahmanyam Lanka, Vaikunta Rao Lakinani, V. Siva Rama Rao Kakani, Synthesis, Characterization and Evaluation of N-Substituted Tetrahydrocarbazoles for anti-oxidant activity Journal of Pharmareations. 3(4) 300-312 (2016).

53.Sravan Kumar Reddy Theepireddy, Nagaraj M Kulkarni, Ramakrishna Chinthala, L. Vaikunta Rao, Pranesha Setty, Rathanakar Reddy Kura, Mallikarjuna Rao Duvvada. Subacute toxicity of Gallic acid, isolated from Terminalia chebula in Swiss Albino Mice. International Journal of Chemistry and Pharmaceutical Sciences. 4(10) 439-443 (2016).

54.Sravan Kumar Reddy Theepireddy, Ravikanth Veluri, Ramakrishna Chinthala, L. Vaikunta Rao, Byresh Pabba, Rathanakar Reddy Kura, Mallikarjuna Rao Duvvada, Extraction of Gallic Acid isolated from Terminalia Chebula, Analysis by LiquidChromatography–Mass Spectrometry and its Pharmacokinetics in Mice & Rats. International Journal of Chemistry and Pharmaceutical Sciences. 3(8) 1900–1905 (2015).

55.Eswara Rao Bammidi, Vaikuntarao Lakinani, Subrahmanyam Lanka, Pavitra Paila, Mallikarjun Rao Duvvada. Development , Validation & Degradation studies of RP- HPLC Method for the determination of Pregabalin in oral suspension powder, International journal of Medicine and Pharmaceutical Research. 3(5) 1151-1156 (2015).

56.Sravan Kumar Reddy Theepireddy, Ramakrishna Chinthala, L. Vaikunta Rao, V. V. Kurisetty, Rathanakar Reddy Kura, Mallikarjuna Rao Duvvada. The isolation, characterization and quantification of gallic acid from the fruit extract of Terminalia chebula. Int. J. Med. Pharm. Res. 3(2) 983-988 (2015).

57.L. Vaikunta Rao, P. Pavitra, CH. Ramakrishna, D. Mallikarjuna Rao and Y. Satyanarayana. Quality Characterization of Ground Water Using Water Quality Index in Visakhapatnam City. International Journal of Pharmaceutical and Chemical Sciences. 4(1) 24-31 (2015).

58.Subrahmanyam Lanka, Vaikunta Rao Lakinani, Eswara Rao Bammidi, Siva Rama Rao Kakani. Synthesis of n-substituted tetrahydrocarbazoles and anticonvulsant activity of synthesized compounds, International journal of current trends in pharmaceutical research. 3(2) 733-736 (2015).

59. Eswara Rao Bammidi, Vaikuntarao Lakinani, Subrahmanyam Lanka, Mallikarjun Rao Duvvada. Development and Validation studies of Pregabalin Drug by RP-HPLC Method for determination of pregabalin in Oral suspension powder. *Journal of Pharmaceutical and Biomedical Analysis Letters*. 3, 214-217 (2015).
60. Eswara Rao Bammidi, Vaikunta Rao Lakinani, Subrahmanyam Lanka, Mallikarjun Rao Duvvada. Method Development and Validation Studies of Pregabalin Drug by RP-HPLC Method, *Journal of Pharmaceutical and Biomedical Analysis Letters*, 3(1) 214-217 (2015).
61. V. Narayana Murthy, Satish P. Nikumbh, S. Praveen Kumar, L. Vaikunta Rao, Akula Raghunadh, An efficient one pot synthesis of 2-amino quinazolin-4(3H)-one derivative via MCR strategy. *Tetrahedron Letters*. 56, 5767-5770 (2015).
62. K. Tirumala Rao, L. Vaikunta Rao. A Validated Stability-Indicating UHPLC Method for Determination of Naproxen and Its Related Compounds in Bulk Drug Samples. *American Journal of Analytical Chemistry*. 4, 286-292 (2013).
63. Raghunadh Akula, Ramamohan Mekala, Raghavendra Rao K, Ravi Ganesh K, L. Vaikunta Rao and Chandrasekhar K. B. FeCl₃ catalyzed an efficient protocol for synthesis of quinazolinones derivatives. *Der Pharma Chemica*. 6(1) 125-130 (2014).
64. Eswara Rao Bammidi, Vaikuntarao Lakinani, David Krupadanam Gazula Levi. Method Development and Validation and Degradation Studies for Cinacalcet Hcl Drug by RP-HPLC Method. *International Journal of Chemistry and Pharmaceutical Science*. 2(7) 990-996 (2014).
65. Eswara Rao Bammidi, Vaikuntarao Lakinani, Rathnakar Reddy Kura Method Development Validation and Degradation studies of Voriconazole, Drug by RP-HPLC Method. *International Journal of Chemistry and Pharmaceutical Sciences*. 2(9) 1149-1154 (2014).
66. Akula Raghunadh, Suresh Babu Meruva, Ramamohan Mekala, K. Raghavendra Rao, Thalishetti Krishna, R. Gangadhara Chary, L. Vaikunta Rao, U.K. Syam Kumar. An efficient regioselective copper catalyzed multi-component synthesis of 1, 3- disubstituted pyrazoles. *Tetrahedron Letters*. 55, 2986-2990 (2014).
67. Eswara Rao Bammidi, Vaikuntarao Lakinani, Subrahmanyam Lanka, Pavitra. Paila Development and Validation of Stability Indicating HPLC Method for Voriconazole In Bulk Drug. *International Journal of Pharmacy & Technology*. 6, 6781-6788 (2014).
68. Sravan Kumar Reddy Theepireddy, Ramakrishna Chinthala, L. Vaikunta Rao, Santosh Vishwakarma, K. Rathnakar Reddy, Mallikarjuna Rao Duvvada. Anti-Hiv Activity of Terminalia Chebula Crude Extracts and Gallic Acid. *International Journal of Pharmacy & Technology*. 6, 6346-6354 (2014).
69. Subrahmanyam Lanka, Vaikuntarao Lakinani, Eswara Rao Bammidi Design Synthesis Method Development and Validation of N-Substituted Tetrahydrocarbazoles for Analgesic and Anti-inflammatory Activity. *Asian Journal of Chemical and Pharmaceutical Research*. 2, 152-155 (2014).

- 70.P. Pavitra, Y. Satyanarayana, L. Vaikunta Rao, Ch. Rama Krishna and D. Mallikarjuna Rao. Emphasizing the ground water quality characteristics of industrialization in Visakhapatnam Archives of Applied Science Research. 6 (6) 128-137 (2014).
- 71.Kulkarni K.S, Sahu S.K, Vaikunta Rao L, Pandit G.G. and Das N. Lakshmana Comparative Estimation of Particulate Bound Polycyclic Aromatic Hydrocarbons: Trends at Industrial and Rural Areas of Visakhapatnam, India, Research Journal of Chemical Sciences. 4(10) 63-71 (2014).
- 72.Kulkarni K.S, Sahu S.K , Vaikunta Rao L, Pandit G.G and Das N. Lakshman Characterization and Source identification of Atmospheric Polycyclic Aromatic Hydrocarbons in Visakhapatnam, India. International Research Journal of Environment Sciences. 3(11) 57-64 (2014).
- 73.A Validated Stability-Indicating UHPLC Method for Determination of Naproxen and Its Related Compounds in Bulk Drug Samples ,K. Tirumala Rao, L. Vaikunta Rao.
- 74.K. Tirumala Rao, Y.V. Mohan, Naveen, L. Vaikunta Rao, Estimation of H₂O₂ Content in Free Radical Bromination and Oxidation Reactions by the H₂O₂-HBr System Generated Effluent Samples by Iodometry Method. Asian Journal of Chemistry. 25 (7) 4107-4108 (2013).
- 75.L. Vaikunta Rao, Ch. Ramakrishna, K. Rukmangadarao and D. Mallikarjuna Rao Physico-chemical analysis of Godavari river water at iravandi near bhadrachalam, khammam district,. Andhra Pradesh, India. The Ecoscan - An international quarterly journal of environmental sciences. 3, 387 – 391 (2013).
- 76.Akula Raghunadh, Satish S More, T. Krishna Chaitanya, Yadla Sateesh Kumar, Suresh Babu Meruva, L. Vaikunta Rao and U. K. Syam Kumar Synthesis of enantiomerically pure N-(2, 3-dihydroxypropyl) arylamides via oxidative esterification. Beilstein Journal of Organic Chemistry. 9, 2129-2136 (2013).
- 77.Akula Raghunadh, Suresh Babu Meruva, Nuka Anil Kumar, Gudla Santosh Kumar, L. Vaikunta Rao, U. K. Syam Kumar. An Efficient and Practical Synthesis of Aryl and Hetaryl, α -Keto Esters. Synthesis. 44, 283–289 (2012).
- 78.Potentiometric determination of ascorbic acid with hexacyanoferrate (III) in nitric acid medium.L.Vaikunta Rao.Acta ciencia indica.36,452 (2010).
- 79.Potentiometric estimation of Arsenic (III) with chloramine - T in nitric acid medium. L. Vaikunta Rao. Journal of the institution of chemists (India) 81, 451 (2009).
- 80.Detection and Spectrophotometric determination of Iron (III) with p – anisidine, L.Vaikunta Rao, Acta Ciencia indica. 34 C, 451 (2008).

Book Chapters

1. Assessment of Remote Sensing and Geoprocessing use for Water Resources Monitoring of Granulite Dome and River Basin from Eastern Ghats, India. Print ISBN: 978-93-5547-247-2, eBook ISBN: 978-93-5547-255-7. Current Advances in Geography, Environment and Earth Sciences Vol. 3. Chapter 2. DOI: 10.9734/bpi/cagees/v3/1947A.

2. Study on Geochemical Exploration and Processing Studies for Graphite and Tungsten Minerals from Burugubanda-Tapaskonda Areas of East Godavari District, India. Print ISBN: 978-93-5547-263-2, eBook ISBN: 978-93-5547-333-2. Emerging Challenges in Environment and Earth Science Vol. 3. Chapter 1. DOI: 10.9734/bpi/ecees/v3/3501E.
3. Assessment of Groundwater Quality in Slums of Visakhapatnam, Andhra Pradesh, India. Print ISBN: 978-93-5547-263-2, eBook ISBN: 978-93-5547-333-2. Emerging Challenges in Environment and Earth Science Vol. 3. Chapter 2. DOI: 10.9734/bpi/ecees/v3/3502E.
4. Metal-Organic Frameworks for Chemical Reactions, Electrochemical aspects of metal-organic frameworks, H. Manjunatha, S. Janardan, A. Ratnamala, K. Venkata Ratnam, L. Vaikunta Rao, S. Ramesh, K. Chandra Babu Naidu, N. Suresh Kumar, Anish Khan and Abdullah M. Asiri <https://doi.org/10.1016/B978-0-12-822099-3.00004-6>, ISBN: 978-0-12-822099-3.

Coursera Courses completed :

1. University teaching 15 August ,2020 , coursera
2. Foundations of Virtual Instruction 24 August ,2020 , coursera
3. Learning to teach on line 29 August ,2020 , coursera
4. Introduction to Physical Chemistry 2022 , coursera
5. Introduction to Environmental law and policy 2022 , coursera
6. Wind Energy 2022 , coursera
7. Natural gas 2022 coursera
8. Specialized module on children and climate change on 3 June ,2020 Conducted by United nations institute for training and research, UNICEF
9. Specialized module on cities and climate change on 3rd June ,2020 Conducted by United nations institute for training and research, UNICEF

Awards

1. SYNLETT Best Paper Award competition
manuscript entitled "A simple approach for the synthesis of fused quinazoline based tetracyclic compounds via MCR strategy" in its revised form for publication in SYNLETT. It is now officially qualified for the SYNLETT Best Paper Award

2. SynOpen Top cited article 2022
Synthesis of Quinoxalin-2(1H)-ones and Hexahydroquinoxalin- 2(1H)-ones via Oxidative Amidation–Heterocycloannulation , Synopen, 10,1055/s-0040-1707203(2020). SCOPUSED JOURNAL.4,(2020) ISSN 2509-9396 ,IF-0.71

Invited Lectures

- 5th Andhra pradesh science congress, amravati in association with Dr.B.R.Ambedkar university, Srikakulam during November 28-30,2019 held at Dr.B.R.Ambedkar university
- National Seminar on Environment and Urban biodiversity resources management June 28 - 30 2017 held on Department of Environmental Sciences, Andhra University.

- National Seminar on Climate Change Ecosystem environment, society September 21&22 2015 held on Department of Environmental Sciences, Andhra University.
- Work Shop on the importance of forest wildlife conservation of nature and natural resources 16th July 2015 at Anam Kalakendaram, Rajahmundry.

DOCTORAL DEGREES GUIDED

Research Guidance : Ph. D Degrees Awarded

Awarded				
S. No	Thesis title	Name of the student	University	Year
1	Development And Validation Of New Rapid Rp-LC Methods For Naproxen, Irbesartan, Meropenem, Trichostatin, Ttbb And Hydroxy Naproxen	Dr.K.Tirumala Rao	GITAM	2021
2	Studies on ground water quality in urban areas of Visakhapatnam, Andhra Pradesh	Dr.Ms. P. Pavitra	GITAM	2021
3	Design and synthesis of novel n-substituted tetrahydrocarbazoles for anti-convulsant and anticancer activities and novel scaffolds of bicalutamide for biological evaluation	.Dr. L.V.L. Subrahmanyam	GITAM	2021
4	Novel approaches towards the synthesis of 2 Amino Tetracyclic and dihydro quinazolinone derivatives via multi component reaction strategy	Dr.V.Narayana Murthy	GITAM	2020
5	Method development and validation of therapeutically active molecules from human biological matrix using LC-MS/MS	Dr. S. Lakshminarayana	GITAM	2019
6	Method Development & Validation and Degradation Studies of Voriconazole, Cinacalcet HCl, Pregabalin and Balsalazide Disodium By RP-HPLC Method.	Dr. B. Eswara Rao	GITAM	2017
7	Development And Validation Of Analytical Methods For Determination Of Genotoxic Impurities In Some Active Pharmaceutical Ingredient Using GC And LC Techniques	Dr. P. Muralikrishna	GITAM	2017
8	Synthesis of α -Keto esters, Quinoxalin-2(1H)-ones, β -Hydroxy esters via metal-free oxidations and synthesis of Pyrazole derivatives via MCR strategy	Dr. Akula Raghunath	GITAM	2016
9	Atmospheric Polycyclic Aromatic Hydrocarbons in Visakhapatnam; Characterization, Seasonal Variations and Source Identification	Dr. Kitri S.Kulkarni	GITAM	2016

10	Studies on ground water quality in north coastal areas of Srikakulam District, Andhra Pradesh	Mr.R.Chandra sekhar	GITAM	2025
11	Development of Novel Methodologies for the Synthesis of Biologically important quinazolinones, quinoxalines and their derivatives	Mr.G.Simhachalam	GITAM	2025
12	Assessment of Nagavali river water quality in and around srikakulam district for agriculture and irrigation	Mr.Venkata krishna Choudari	GITAM	Submitted (2025)
13	A Sustainable Protocol for C=C Bonds Synthesis Using Water Extract of Annona squamosa Fruit Shell Ash (WEASF)	Mr.Ettam Ashok	GITAM	Submitted (2025)
14	Novel and green approaches towards the synthesis of 2-alkoxy-4,6-diphenylnicotinonitrile, 3-arylmethyl indoles, 2, 3-disubstituted quinazolinones, 2-arylbenzothiazoles and 4-aryl imidazo quinoxaline derivatives via one pot reaction strategy”	Mr.Yakkanti Chiranjeevi	GITAM	Submitted (2025)

M. Phil Degree Awarded

1	Assessment of quality of the Godavari river water in and around Bhadrachalam, Khammam District, A.P., India	Mr. K. Rukmangada Rao	GITAM	2010
---	-------------------------------------------------------------------------------------------------------------	-----------------------	-------	------

Ph.D STUDENTS (EXISTING): 04.

1.Mr.DVM Krishna Reddi

2.Mr.VN Chandrasekhar

3.Mr. Burra Satish kumar

4.Ms.Vasupavani DVR

Patents:

INDIAN PATENT, **Title of the invention** : Advanced photocatalytic system for efficient water splitting and hydrogen production, Application No.202541041104 A, Date of filing of Application :28/04/2025 (43) Publication Date : 23/05/2025.

Invited Lectures

- Chemistry for societal advancement 16th-18th, August 2020 Organised by Department of Chemistry, Dr.B.R. Ambedkar University , Srikakulam and Andhrapradesh Academy of Sciences ,Amaravati.
- 5th Andhra pradesh science congress, amravati in association with Dr.B.R.Ambedkar university,Srikakulam during November 28-30,2019 held at Dr.B.R.Ambedkar university
- National Seminar on Environment and Urban biodiversity resources management June 28 - 30 2017 held on Department of Environmental Sciences, Andhra University.
- National Seminar on Climate Change Ecosystem environment, society September 21&22 2015 held on Department of Environmental Sciences, Andhra University.
- Work Shop on the importance of forest wildlife conservation of nature and natural resources 16th July 2015 at Anam Kalakendaram, Rajahmundry.:

Life Member In Professional Bodies:

- Association of Environmental Analytical Chemistry
- Indian Association of Nuclear Chemists and Allied Scientists.

Tasks undertaken at JBIET, Hyderabad.

- A oneday work shop of Indian Association Radiation Protection on Beneficial Effects of radiation Technology and Indian Nuclear Energy funded by BARC on 25th January 2025.
- National science day organized during 27th-28th February ,2025.
- A oneweek faculty development program was organized during 22nd-26th April,2025 on Computational and experimental insights in to material research-2025.

List of Papers Presented in Conferences/ Seminars:

- Evaluation of groundwater quality in the coastal area of Srikakulam, AP, India, 8th-9th ,December , 2022 .Organized by Department of Environmental Science ,GITAM School of Science GITAM University, Visakhapatnam. India.

- Chemistry for societal advancement 16th-18th, August 2020 Organised by Department of Chemistry, Dr.B.R. Ambedkar University , Srikakulam and Andhrapradesh Academy of Sciences ,Amaravati.
- National Seminar on Emerging biotechnological techniques in environmental sustainability is organized by Departments of Environmental Sciences and biotechnology , Andhra Loyala college ,Vijayawada during 6 to 7 march 2019 and presented a paper on Determination of free Bromine content in Ethylpyruvate sample by Oxidation process by Titration method.
- Water Sanitation & Hygiene organized by Department of Environmental Sciences, Dr.B.R. Ambedkar University , Srikakulam on 23 to 24 Feb 2019
- 5th AP science congress, AP Akademi of Sciences in association with Dr.B.R. Ambedkar university, held during 28-30 November ,2019 and given invited talk on A study of ground water quality in Urban areas of Visakhapatnam, AP
- National Seminar on State of Environment ; Environmental protection management and Governance held in Department of Environmental Sciences, Andhra University during June 28 - 30 ,2018 and presented paper on assessment of ground water quality in Urban areas of Visakhapatnam., AP
- National Seminar on Environment and Urban biodiversity resources management June 28 - 30 2017 held on Department of Environmental Sciences, Andhra University and presented paper on assessment of ground water quality around coastal region ,Vizianagaram district
- National Seminar on Climate Change Ecosystem environment, society September 21&22, 2015 held on Department of Environmental Sciences, Andhra University.
- National Conference on Sustainable Development (SusCon) 10th & 11th October 2012 organised by Institute of Science, GITAM University, Visakhapatnam.
- Work Shop on the importance of forest wildlife conservation of nature and natural resources 16th July 2015 at Anam Kalakendaram, Rajahmundry.
- Study on ground water quality along the sea-coast of Visakhapatnam to Bheemili in Visakhapatnam district, National seminar on climate change and sustainable management of water resources, March 17-18, 2012 at GITAM University, Visakhapatnam.
- Impact of industries on the quality of Godavari river water at Bhadrachalam, East Godavari district ,Andhra Pradesh, National seminar on climate change and sustainable management of water resources, march 17-18, 2012 at GITAM University, Visakhapatnam.

- Ideal potable water characteristics, National seminar on climate change and sustainable management of water resources, march 17-18, 2011 at GITAM University, Visakhapatnam
- Ground water quality study in tribal habitations of Visakhapatnam district - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh Akademi of Sciences.
- Synthesis of a-carboline Analogues - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh Akademi of Sciences.
- Comparative drinking bore well water quality study in Visakhapatnam district - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh Akademi of Sciences.
- Comparative shallow aquifer quality study in Visakhapatnam district - Andhra Pradesh Science Congress, 14-16, November, 2011 jointly organized by GITAM University, Visakhapatnam and Andhra Pradesh Akademi of Sciences.
- Vedic description of natural elements, national conference on Present relevance of Ancient Indian sciences , 14-15 September 2011 at GITAM University, Visakhapatnam
- Vedic Description of Heart, national conference on Present relevance of Ancient Indian sciences ,14-15 September 2011 at GITAM University, Visakhapatnam
- Ground water quality study in tribal habitations of Visakhapatnam district Andhra Pradesh science congress, 14-16 ,November,2011 at GITAM University, Visakhapatnam
- Synthesis of a-carboline Analogues Andhra Pradesh science congress, 14-16 November, 2011
- Comparative drinking bore well water quality study in Visakhapatnam district Andhra Pradesh science congress, 14-16 ,November, 2011 at GITAM University, Visakhapatnam
- Comparative shallow aquifer quality study in Visakhapatnam district Andhra Pradesh science congress, 14-16 ,November, 2011 at GITAM University, Visakhapatnam
- Vedic description of natural elements national conference on Present relevance of Ancient Indian sciences ,14-15 September 2011 at GITAM University, Visakhapatnam.

- National Seminar on the Recent Trends in Pharmaceutical Chemistry (RTPC) 2011 organised by Department of Chemistry, Krishna University, Machilipatnam, AP during 30-31 January 2011.
- Study on the quality of Godavari river water at Bhadrachalam in Khammam District, A.P (India), 2nd International Conference on Environmental Management, 25th -28th October 2010 at JNTU, Hyderabad, Andhra Pradesh.
- Estimation of impurities in simvastatin drug API by using chromatographic LC method, national seminar on recent advances in green chemistry aligning science, education, industry and society, 15th to 16th November 2010 at Satavahana University, Karimnagar, Andhra Pradesh
- Effect of industrial effluents, domestic sewage, municipal sewage on Godavari river water at Bhadrachalam, Khammam District, 29th – 30th November 2010 at National Conference on Biological Chemistry organized by Dept. of Chemistry, GITAM Institute of Science, GITAM University, Visakhapatnam, Andhra Pradesh.
- Spectrophotometric detection and determination of Gallo blue with oxalic acid as a reagent. National Academy of Science, 1996.
- Spectrophotometric determination of iron (III) using p-anisidine as a reagent in the medium of nitric acid. 83rd Indian National Science Congress, Calcutta, 1996.
- Determination of ascorbic acid with hexacyanoferrate (III) in nitric acid medium through Potentiometric and visual methods. Indian National Science Congress, 1995.
- Detection and Spectrophotometric determination of copper (II) using pyridine as the reagent. Abstracts of National Academy of Sciences, 63rd Annual Session, Bangalore, 1993.
- Detection and Spectrophotometric determination of copper (I) using molybdenum (VI) as the reagent. Abstracts of 30th Annual Convention of Chemists, Calcutta, 1993.
- P- Anisidine as a new indicator for the titrimetric estimation of Fe (II), U(IV), Mo(V), v(IV), hexacyanoferrate (II), hydroquinone and hydrogen peroxide with cerium (IV). Indian Science Congress, Baroda, 1992.

- p- Anisidine as a new reductometric indicator for the determination of iron(II), copper (I) and hydroquinone with vanadium (V). 28th Annual Convention of Chemists. Calcutta, 1991.

List of Conferences / Work Shops Attended

One day National Webinar on Trends in Modern Molecules and Materials Discovery held on 26th February, 2022. Department of Chemistry, Koneru Lakshmaiah Education Foundation -Deemed to be University. Vaddeswaram, Guntur, AP.

- 40th annual national conference of Indian council of chemists held at department of chemistry, satavahana university, Karimnagar, Telangana state during 29-30 December, 2021.
- Sustainable technology and development - Environmental Impacts organised by Department of chemistry, Koneru Lakshmaiah Education Foundation -Deemed to be University, Guntur during 22-23 February, 2021
- Dr.A.P.J.Abdul Kalam Endowment lecture on Modelling as a tool to better understand the degradation of materials on 17th June, 2021, Organised by Department of Chemistry, Koneru Lakshmaiah Education Foundation -Deemed to be University. Vaddeswaram, Guntur, AP
- Conquering the intricacies of citations and References organised by Wiley on 24th August, 2021
- Two day National Conference on Sustainable Technology and Development-Environmental Impactson 22nd -23rd February 2021, Organised by Department of Chemistry, Koneru Lakshmaiah Education Foundation -Deemed to be University. Vaddeswaram, Guntur, AP
- First International Conference on Global Research Perspectives in Engineering & Technology for Holistic Restructuring organized by P.T. Lee Chengalvaraya Naicker Polytechnic College, Chennai, Tamil Nadu in association with Centre for Research & Training, National Foundation for Entrepreneurship Development, Coimbatore, Tamil Nadu on 24-25 September 2021
- International webinar on chemistry for societal advancement organised by Department of chemistry, Dr.B.R.Ambedkar university, Srirakulam and Andhra pradesh akademi of sciences, Amaravati from 16th -18th, 2020
- Winter school professional Development program on Geospatial technologies Application to Science and engineering research organized by Department of Environmental Sciences, GITAM University, 19th Dec 2015 to 8th Jan 2016
- National Seminar on Environment, Urbanization and Bio-Resources Management (NS-EUBRM) organized by Department of Environmental Sciences Andhra University, Visakhapatnam June 28-30, 2017.

- International Conference on APBIO 2017 held on 10-11 august 2017 organized by GITAM University, Visakhapatnam.
- Course on Vacuum Science, Technology and Applications (CVSTA-2013) Conducted by Indian Vacuum Society held at GITAM University during Sep 24-27, 2013.
- National workshop on Modern analytical techniques for industry and environment (MATIE-2012) during 2-3 March, 2012 at GMR Institute of Technology, Rajam, Srikakulam.
- National seminar on peaceful applications of atomic energy during 22-23 February, 2012 at GITAM University, Visakhapatnam.
- International symposium on effect of Emissions & Effluents on Environment (EEEE-2011), Andhra University, Visakhapatnam.
- Training program on X-ray powder diffraction on 28 November, GITAM University, Visakhapatnam.
- National Seminar on Analytical Chemistry – Its importance in industry, environment and health organized by Department of Inorganic and Analytical Chemistry, Andhra University, 24-26 September 2010.
- Faculty development Programme organized by, GITAM University, 27th Feb 2010 to 28th Feb 2010.
- National Conference on Organic & Medicinal Chemistry held at National Institute of Technology, Warangal, 16-17 January 2009.
- National Conference on Recent Trends in Materials Chemistry Special Emphasis on Nanomaterials organized by Department of Chemistry, GITAM Institute of science, GITAM University, 28-29 July 2008.
- National Workshop on computational methods in engineering held at GMR Institute of Technology, Rajam, 7-8 October 2006.

Participated in Staff Development Programmes

- Faculty development program on Productivity tools for teaching enhancement conducted by Dhyana hita educational society from 7th may to 21st may ,2020, Hyderabad
- Patent Awareness Programme organized by GITAM Institute of Science, GITAM University, Visakhapatnam on 28th October 2013 as sponsored by Department of Science and Technology (DST), Govt. of India, New Delhi.
- Awareness workshop of UGC-DAE-Consortium for Scientific Research, organized by UGC-DAE-CSR, Mumbai Centre and GITAM Institute of Science, GITAM University, Visakhapatnam during 26-27 June 2012.

- Participated in Staff Development Programme on Clean Technologies Organised by Department of Chemical Engineering, GMR Institute of Technology, Rajam, AP, during 2-14 April 2012.
- Faculty development programme during 27-28, February 2010 at GITAM University, Visakhapatnam.
- Work shop on English for specific purposes program for technical teachers, 13-14 March, 2006 GMR institute of Technology, Rajam, Srikakulam.
- Short term course on Methods of Improvement Teaching Techniques conducted by National Institute of Technical Teachers Training & Research at GMR Institute of Technology, Rajam, 5-10 December 2005.