

Maris Stella College (Autonomous), Vijayawada

Profile of every member in the Department

Name: Dr.S.Vani Latha

Educational Qualification: M.Sc, MCA, M.Phil, Ph.D

Designation: Lecturer

Years of experience: 18 + 2

Maris Stella College: 18

Other Institutions: 2 (Service certificate is not available)

G Suite Email Id: vanilatha.battu@marisstella.ac.in

Email Id: vanilatha.battu@gmail.com

Contact No: 9440091355

Languages Known: Telugu, Hindi, English

Areas of Interest: Green chemistry, Instrumental methods of analysis, separation techniques, thermodynamic study of binary liquid mixtures, interdisciplinary academic projects.

Academic Contribution: Designed theory, practical syllabus for General, Cluster electives; Chair person – departmental BoS; Set Question Papers of SEE for universities, Government/ aided degree colleges; Conduct guest lectures, Industrial visits; Organise chemistry exhibition (Alchemy- Fair) and ‘Lab to Schools’ with social responsibility; Coordinate skill development training programme/ certificate course ; Handle students’ mini research projects; Involve students in project based, experiential learning, question Paper setting activities; Motivate students to pursue higher education – arrange program on Career opportunities in chemistry; interaction with alumni; Resource person for guest lecture; Contributed e-content in 4 quadrants to CCE LMS portal for two topics in both English and Telugu medium.

Academic Profile:

Refresher Courses/Orientation Courses/Short Term Courses Attended:

Research Publications:

a) Journals - 09

- a) **S.VaniLatha**, G. Little Flower, M. Srinivasa Reddy, L.YugendharRaju, C.V. NageswaraRao and A. Ratnakar, Thermo physical, optical and spectroscopic perspectives of molecular interactions in binary mixtures of Ethyl Lactate and Dimethyl Adipate at T = 303.15–318.15 K and atmospheric pressure, *Physics and Chemistry of Liquids*, 57 (2019)816-839.
DOI: 10.1080/00319104.2018.1531408
Publications: Taylor & Francis
Indexed by: Scopus
Published online: 20th October, 2018
Issued in 2019: Volume 57, Issue 6, Pages 816-839
- b) **S.VaniLatha**, G. Little Flower, L.YugendharRaju, Study of refractive indices of binary mixtures composed of Green solvents ethyl lactate and iso propyl alcohol, *International Journal of Engineering Science Invention*, (2018) 60-64.
ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726
- c) G. Little Flower, **S. VaniLatha**, G.SahayaBaskaran, Y. HanumanthaRao, M.Arokiasamy, ‘Nanotechnology in dentistry: Present and future Perspectives, *Journal of Chemical and Pharmaceutical Sciences*, 10 (2017) 577-579.
ISSN:0974-2115
- d) **S.VaniLatha**, G. Little Flower, K.Rayapa Reddy, C.V. NageswaraRao and A. Ratnakar, Densities, Ultrasonic Velocities, Excess Properties and IR Spectra of Binary Liquid Mixtures of Organic Esters (Ethyl Lactate, Some Organic Carbonates , *Journal of solution chemistry*, 46 (2017) 305-330.
DOI: 10.1080/00319104.2018.1531408
Publications: Springer
Indexed by: Scopus
- e) **S.VaniLatha**, G. Little Flower, K.Rayapa Reddy, C.V. NageswaraRao and A. Ratnakar, Evaluation of thermo acoustic parameters and theoreticalultrasonic velocity in binary liquid mixtures of Ethyl lactate +Alcohols, *Journal of atoms and molecules*, 6 (2016) 1017 – 1035.
UGC approved Journal
- f) G. Little Flower,**S.VaniLatha**, K.Rayapa Reddy, C.V. NageswaraRao and A. Ratnakar, Novel characterization of nanosilver fluid through ultrasonic studiessupported by UV–Vis spectroscopy, DLS and TEM studies, *Journal of molecular liquids*, 221 (2016) 333–338
DOI: 10.1016/j.molliq.2016.06.017

Publications: Elsevier

Indexed by: Scopus

- g) **S.VaniLatha**, G. Little Flower, K.Rayapa Reddy, C.V. NageswaraRao and A. Ratnakar, Exploration of volumetric, acoustic, thermodynamic and IR studies of binary mixtures of green solvent ethyl lactate with C₃alkanols at T = (303.15, 308.15, 313.15, and 318.15)K and atmospheric pressure, Journal of molecular liquids, 209 (2015) 153-160, DOI:10.1016/j.molliq.2015.05.026

Publications: Elsevier

Indexed by: Scopus

- h) G. Little Flower, **S. VaniLatha**, G.SahayaBaskaran, Investigation on the role of nanosilver in controlling the physical parameters of an industrial effluent, International journal of engineering research-online, 3 S1 (2015) 60-63.

ISSN: 2321-7758

- i) **S.Vanilatha**, P.Jhansi Rani, U.Raji, V.Pavani, N.sruthi, A.Nagamani, S.Aruna, M.Prasanthi, Synthesis and study of adsorption properties of activated carbon from *Citrus aurantium* and *Punicagranatum*, International Journal Of Engineering Research-Online, 3 S1 (2015) 119-126.

ISSN: 2321-7758

b) Conference Proceedings - 01

1. **S.VaniLatha**, 'Agricultural practices with smart sensors', proceedings of National work shop on 'Physics and technology: Modern sensor characteristics, interfacing and programming', (2019), ISBN No.978-942990-6-6

Paper Presentations: 06

1. Dr S VaniLatha has participated and **presented** Two papers in UGC sponsored '**International conference** on Materials for energy and environmental protection (ICMEEP)' at Sir CR Reddy college, Eluru, organized by Depts of Physics, Chemistry and electronics on 12th&13th Feb, 2018.
2. Mrs S. VaniLatha has presented a paper 'Influence of heavy metal concentration on seed germination and radicle growth of Fenugreek and Green gram' in a three day international conference on 'New approaches

in agriculture, food and environmental sciences' organized by department of Botany, Bio-Tech, Micro biology, ALC, Vijayawada on 22-24th December, 2016.

3. Mrs.S.VaniLatha presented a paper on "Investigation on the role of nano silver in controlling the physical parameters of an industrial effluent" in the National conference on 'Emerging frontiers of materials science' on 12th&13th February, 2015, organized by department of Physics, Maris Stella College, Vijayawada.
4. Mrs.S.VaniLatha presented a paper entitled "Synthesis and study of adsorption properties of activated carbon from Citrus aurantium and Punicagranatum" in the National conference on 'Emerging frontiers of materials science' on 12th&13th February, 2015, organized by department of Physics, Maris Stella College, Vijayawada
5. Mrs.S.VaniLatha participated in a national seminar on ' Plant made pharmaceuticals and approaches to the synthesis of bio active natural product's and **presented a paper** titled 'synthesis and chromium reduction by activated carbon from orange plant materials' on 18-july-2014 at Hindu College, Guntur.
6. Mrs.S.VaniLatha, participated in the 'Theme meeting on recent trends in spectroscopy (RTS-2014)' held at Indian Institute of Technology, Madras, Chennai, during June 20-21, 2014 and **presented a paper** titled 'Luminiscent Characteristics of Ho³⁺ ions in PbO-B₂O₃-SiO₂-Al₂O₃ glass systems'

Research Projects: Nil

Books Published/Chapters in Books: 01

'Synthesis and study of viscoelastic properties of silver nano fluids', Lambert academic publishing, 2018-29, ISBN. No.978-613-9-46052-6

Research Guideship: NA

Workshops/Seminars/Webinars/Conferences Attended: and

2013-2014

1. Mrs.S.VaniLatha attended a seminar on 'The role of chemistry in drug discovery', organized by Krishna University and the Royal Society of

Chemistry(London),Deccan section, Hyderabad together at the auditorium, Siddhartha academy ,Vijayawada on 6-7-2013.

2. Mrs.S.VaniLatha participated in the state level workshop on ‘Chemistry and career prospects’ organized by the department of chemistry, KBN College, Vijayawada on 30th November, 2013.

2014-2015

3. Mrs.S.VaniLatha attended a public lecture on ‘towards synergy of quality assurance in higher education’ , organized by Krishna University, under Krishna University public lecture series, at the auditorium, PB Siddhartha college of arts and science, Vijayawada on 2-01-2014.
4. Mrs.S.VaniLatha, participated in the ‘Theme meeting on recent trends in spectroscopy (RTS-2014)’ held at Indian Institute of Technology, Madras, Chennai, during June 20-21,2014 and **presented a paper** titled ‘Luminescent Characteristics of Ho^{3+} ions in $\text{PbO-B}_2\text{O}_3\text{-SiO}_2\text{-Al}_2\text{O}_3$ glass systems’.(Registration Fee: paid by management)
5. Mrs.S.VaniLatha attended CII Education Excellence Forum road show on 17-July-2014 at 2.30 PM in PB Siddhartha College of Arts and Sciences, Vijayawada .
6. Mrs.S.VaniLatha went to Hindu College, Guntur to attend a national seminar on ‘ Plant made pharmaceuticals and approaches to the synthesis of bio active natural product’s and **presented a paper** titled ‘synthesis and chromium reduction by activated carbon from orange plant materials’ on 18-july-2014.
7. Mrs.S.VaniLatha participated in the one day workshop on ‘The efficacy of internal quality assurance systems’, organized by IQAC of Maris Stella College, on 3-11-2014.
8. Mrs.S.VaniLatha has involved in the inaugural session of “Science Inspire Club “, held in the A.V Room ,Maris Stella College, on 6-11-2014.
9. Mrs.S.VaniLatha, invited as a judge for the ‘Rapid titration’ in SPECTRUM-2014 (Inter collegiate competitions) organized by department of chemistry, Siddhartha MahilaKalasala, on 16th December 2014.

2015-2016

10. Mrs.S.VaniLatha presented a paper entitled “Synthesis and study of adsorption properties of activated carbon from Citrus aurantium and Punicagranatum” in the National conference on ‘Emerging

frontiers of materials science' on 12th&13th February, 2015, organized by department of Physics, Maris Stella College, Vijayawada.

11. Mrs.S.VaniLatha presented a paper on “Investigation on the role of nano silver in controlling the physical parameters of an industrial effluent” in the National conference on ‘Emerging frontiers of materials science’ on 12th&13th February, 2015, organized by department of Physics, Maris Stella College, Vijayawada..
12. Mrs.S.VaniLatha, participated in UGC sponsored two day national seminar “ shaping the future with nano sciences”, on 19th and 20th August, 2015,organized by department of chemistry, P.B.Siddhartha College of Arts & Science, Vijayawada.
13. Mrs.S.VaniLatha participated in a UGC sponsored two day national seminar “Advances in chemical sciences”, on 18th and 19thSeptember, 2015, organized by department of chemistry, K.B.N. College, Vijayawada.
14. Mrs.S.VaniLatha served as a judge for Dr.Sudha Science quest –28.1. 2016, organized by St John’s school, Vijayawada.

2016-2017

15. Mrs S. VaniLatha has presented a paper ‘Influence of heavy metal concentration on seed germination and radicle growth of Fenugreek and Green gram’ in a three day international conference on ‘New approaches in agriculture, food and environmental sciences’ organized by department of Botany,Bio-Tech, Micro biology, ALC, Vijayawada on 22-24th December, 2016.
16. Mrs S. VaniLathahas participated in the two day national level workshop on “**Training Of Trainers: Becoming Effective Teachers and Trainers**” organized by WEPRO, Loyola College, Chennai on April 21st and 22nd 2017

2017-2018

17. Dr S VaniLatha has participated and **presented** Two papers in UGC sponsored ‘**International conference** on Materials for energy and environmental protection (ICMEEP)’ at Sir CR Reddy college, Eluru, organized by Depts of Physics, Chemistry and electronics on 12th&13th Feb,2018.

2018-2019

18. Dr S VaniLatha has participated and presented a paper in the national seminar organized by KBN college, Vijayawada on 28-29thSeptember, 2018. (registration Fee: Rs 500/- paid personally)
19. Dr S. VaniLatha attended a one day ‘Pre-Event Lecture series, road show and exhibition on nano science and technology’ organized by dept. of Chemistry, KBN College in collaboration with Tenth Bengaluru India Nano, Karnataka Science and Technology Promotion Society (KSTePS) On 15.11.2018. (Registration Fee: Free)
20. Dr.S.VaniLatha delivered a guest lecture ‘Different types of chromatography techniques’ to the students of III B.Sc- MPC, CBZ at KTR Women’s College, Gudivadaon 14.2.2019.

2019-2020 (June-2019 to May-2020)

21. Dr.S.VaniLatha participated in national workshop on ‘Contemporary Nano: Synthesis, characterization and Applications’ organized by Department of chemistry, Ch.S.D.ST.Theresa’s College for Women, Eluru on 22.8.2019.
22. DrS.VaniLatha participated in 3 Day national work shop on ‘Constructive alignment and outcome based Education’ held from 21-23, October, 2019 at Maris Stella College, Vijayawada.(Registration fee: Rs3000/ head- paid by college), (Organized by Maris Stella College)
23. DrS.VaniLatha participated in the three day national workshop on ‘Physics and technology: Modern sensors, characteristics, interfacing and programming’ from 7th to 9th, November, 2019 organized by Department of Physics, Maris Stella College. (Registration fee: Rs500/ - paid personally).
24. Dr S. VaniLatha participated in **Dr.Sudha Memorial Science Quest-2019**as **Jugde** at **St.John’s Public School**, Gunadala, Vijayawada on 29.11.2019 and 30.11.2019 respectively.
25. DrS.VaniLatha participated in 2 Day national work shop on ‘Designing effective assessment practices and digital technology’ held on 2nd and 3rd December, 2019 at Maris Stella College, Vijayawada. (Organized by Maris Stella College)
26. Dr S.Vani Latha participated in one day workshop on ‘Mentoring’, held on 7-9, January, 2020 at Maris Stella College, Vijayawada.
27. Dr. S.VaniLatha participated as a **resource person** (Guest speaker) in one day workshop on ‘Separation Techniques by Chromatographic methods’

- organized by Dept. of Chemistry, Dr LHR Govt Degree College, Mylavaram on 24.01.2020.
28. Dr. S.VaniLatha attended YVNR Government Degree College, Kaikaluru as a **resource person** for the work shop entitled ‘Chromatographic Techniques’ on 14.2.2020.
 29. Dr. S. Vani latha participated in a 3 day workshop on video content creation organized by IQAC, Marian College, Kuttikkanam from 22.3.2020 to 24.3.2020. (Registration Fee: 1000/- paid personally).
 30. Dr. S. Vani latha participated in a 3 day workshop on ‘Education 4.0’ organized by IQAC, Atharva College of Engineering, Maharashtra from 28.4.2020 to 30.4.2020.
 31. Dr.S.Vani Latha participated in one day online national conference on ‘Applications of quantum Chemistry’ jointly organized by IQAC and Department of chemistry, Shri Pancham Khemraj Mahavidyalaya, Sawantwadi on 3.5.2020.
 32. Dr.S.Vani Latha participated in 1 day webinar on ‘Gamification tools in teaching’ organized by IQAC, St Xavier’s College for Women, Aluva on 7.5.2020.
 33. Dr.S.Vani Latha participated in ‘National Level COVID-19 awareness Quiz’ on 13.5.2020 organized by Government Degree College, Amarwara.
 34. Dr.S.Vani Latha participated in 2 day national level online workshop on ‘ICT Tools for teaching and Learning’ organized by K.G.R.L.College, Bhimavaram on 15.5.2020 and 16.5.2020.
 35. Dr.S.Vani Latha participated in national webinar on ‘Taking research forward during pandemic’ organized by Loyola Institute of frontier Energy (LIFE), Loyola College, Chennai on 20.5.2020.
 36. Dr.S.Vani Latha participated in a webinar on ‘Guidelines for writing a research Paper’ organized by research committee, Arasu Engineering College, Kumbakonam, on 22.5.2020 through online pedagogy.

2020-2021 (June-2020 to May-2021)

37. Dr.S.Vani Latha participated in a webinar on ‘preparing ourselves to meet post covid challenges’ organized by Geethanjali Institute of Science & Technology on 6.6.2020.

38. Dr.S.Vani Latha participated in the webinar on 'Free online tools useful for effective chemistry lecturing' organized by St Vincent De Paul College, Eluru on 9.7.2021.
39. Dr.S.Vani Latha completed the online course on 'Sustainability commitment in educational campus' organized by Centre for Science and Environment, India from 16.7.2020 to 17.7.2020.
40. Dr.S.Vani Latha participated in the webinar on 'Bridging electromagnetic spectrum for technological applications – A materials perspective' organized by the department of Physics, Andhra Loyola College on 21.7.2020.
41. Dr.S.Vani Latha participated in an online National Level Quiz titled 'Sowing the Seeds of Peace and Harmony in commemoration of the nuclear bombings of Hiroshima (August 6, 1945) and Nagasaki (August 9, 1945), organized by the Department of Physics, Maris Stella College, Vijayawada from 4th-10th August, 2020.
42. Dr.S.Vani Latha participated in the online 3-days workshop on 'Office automation tools' organized by department of computer science and IQAC, Maris Stella College, from 21.7.2020 to 23.7.2020.
43. Dr.S.Vani Latha participated in 5-day online workshop in 'Formal written communication' organized by IQAC, Maris Stella College in collaboration with Christ (Deemed to be University), Bangalore from 19.10.2020 to 23.10.2020.
44. Dr.S.Vani Latha participated in the 6-days online International workshop on 'Research methodology in science' organized by Aretex Scientific International Pvt. Ltd from 5.10.2020 to 10.10.2020.

FDPs/Training Programs Attended:

1. Dr S VaniLatha participated in the Two Day faculty development workshop on 'Cluster electives in Chemistry' for lecturers at SRR & CVR Govt degree college,from 28th to 29th , November,2017.
2. Dr S VaniLatha participated in the UGC sponsored one Day state level 'Faculty development workshop' on 'Practicals of green Chemistry cluster' for lecturers at AG & SG Siddartha degree college, Vuyyure on 6th January, 2018.
3. Dr. S. Vani latha participated in a 3 day Training program on 'La Tex' organized by Vellalar College for Women from 27.4.2020 to 29.4.2020, with course material provided by Spoken Tutorial Project, IIT, Bombay.

4. Dr.S.Vani Latha participated in 2 day online national level Faculty Development Programme on ‘Open Learning with Open Online Tools’, organized by IQAC, Government College, Rajahmundry on 3.5.2020 and 4.5.2020.
5. Dr.S.Vani Latha participated in 3 day national level Faculty Development Program on ‘Tools for online classroom post Covid – 19’ organized by P.B.Siddharatha College of Arts and Science, Vijayawada from 18.5.2020 to 20.5.2020.
6. Dr.S.Vani Latha participated in ‘5day Faculty Development Programme in Chemistry’ on the theme of ‘ New Knowledge, Advanced Teaching & Research new frontiers and emerging technologies’ organized by Organised by Commissionerate of Collegiate Education, AP, Vijayawada from 1.6.2020 to 5.6.2020.

Membership in Professional Bodies: Nil

Recognition/Awards: 01 (Woman of Worth Research Awards 2021 - Best woman researcher award Given by Society for Learning Technologies, India)