

Name: Dr S ANITHA	Photo 			
Designation:	Associate Professor			
Qualification:	M.Sc., M.Phil., Ph.D.,			
Area of specialization:	Chemistry			
Experience:	Industrial Experience		Teaching Experience	
	NIL		UG : 21 yrs 11 months 7 days PG : 6 yrs	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	17		50	
Publications:	Conference		Journal	
	National	International	National	International
	Nil	1	Nil	4
Books / Book Chapters	Book Chapters - 5			
Patents:	National		International	
	2		Nil	
Professional Body Membership	IEEE, ISTE, ACT			
Staff Achievements	NPTEL: Top performing mentor 2024, Domain star 2025 Motivated learners 2025, Discipline star 2025			

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc.	General Chemistry	1999	DKM college for womens	Madras University	81.7%	I
PG	M.Sc.	General Chemistry	2001	MGA College	Madras University	67.3%	I
	M.Phil.,	Inorganic Chemistry	2005	Bharathidasan University	Bharathidasan University	73%	I
Ph.D.	Ph.D.	Green synthesis and Nano chemistry (Material Science)	completed	Guru Nanak college	Madras University	-	-

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Kanchi Krishna College of Arts & Science	Lecturer	August 2001	June 2004	2	10	26
Sacred Heart College of Arts & Science	Lecturer	June 2004	March 2005	-	9	10
Guru nanak College of Arts & Science	Lecturer	July 2005	Dec 2010	5	4	14
RGUKT	Lecturer	Dec 2011	Feb 2012	-	2	29
Sri Sai Ram Engineering College	Asst. Professor	July 2013	Till date	12	7	18

Workshops/Seminars attended:

1. Two days training Programme on the state-of-the-art analytical equipment (TPSAE 2019) on 1/03/2019 and 02/03/2019 at MIT campus Anna University.
2. National level workshop on **“Advancements in chemical science”** on 18th July 16 at Sri sai ram institute of technology
3. Two days workshop on **“chemistry – current focus”, 26&27th august 2016, at Madras Christian College.**
4. Workshop on Creation of e- content, organized by universal teacher’s academy, UTA, Puducherry 21st April to 30th April.
5. Workshop on Creation of animated e-content, educational games and tools, UTA, Puducherry, 14th May to 18th May.
6. Workshop on Creation of animated e-content, educational games and tools, UTA, Puducherry 16th June to 20th June.
7. Workshop on Creation of android app, 16th June to 20th June. UTA, Puducherry.
8. e- Workshop on basic principles and concepts of chemistry, DR.M.G.R. Educational and research institution, 27th May to 29th May.
9. Workshop on Integrating swayam MOOCS & educational apps in, teaching organized by IQAC & SWAYAM, 28th May & 29th May.
10. Workshop on Management of environment and its resources, MOOC workshop, Nesami memorial Christian College, marthandam, 28th to 11th May 2020.
11. International workshop on modern approach to chemistry and hand on training in solving spectroscopy problems, BHARATHI WOMENS COLLEGE, chennai, 24th June 2020.
12. Workshop on Molecular visualization series, wave func inc., usa (neotel), 9th May 2020.
13. National level workshop on Computational chemistry - A Leeway of theoretical chemistry. DBT Star College Status, organized by the PG & Research Department of Chemistry, PSGR Krishnammal College of Women, Coimbatore in collaboration with D.G. Vaishnav College, Arumbakkam, Chennai from 27.07.2020 to 29.07.2020.
14. International workshop on interactive e resource –UTA -14 TO 18 JUNE.
15. ICT Tools For Chemistry Teachers, Guru Angad Dev Teaching Learning Centre, 22.02.2021
16. International workshop on interactive e resource- UTA -14-18 June 2021.
17. International Workshop on “Virtual labs” SCRS govt college in collaboration with IIT Delhi on 27.09.23
18. International workshop on “Virtual Labs”- -SCRS govt college in collaboration with IIT Delhi on 7.03.24

FDP/STTP Attended:

1. Staff development programme on **“characterization of materials”** at Sri Sairam Institute of technology, Chennai held on 20th & 21st July 2017.
2. Faculty development Programme on “Renewable energy systems” at Sri Sairam engineering college, Chennai on 22/07/2019 -26/07/2019.
3. Enhancing soft skill and personality 7 days FDP conducted by Nptel.
4. “Recent trend in covid-19: Diagnosis and Management” organized by vels university, June 4th, 2020.
5. Recent trends in material frontiers, St.Joseph's college of engineering, Chennai, 29th & 30th May 2020.
6. Evolution from offline to online, Sathish Pradhan Dnyanasadhana college, Thane, 30th May to 3rd June 2020.

7. Recent innovations in electrical, electronics, instrumentation, automation & teaching pedagogy, Sri Sairam engineering college, 18th to 30th may 2020.
8. AICTE Training And Learning (ATAL) Academy Online FDP on "Novel Materials" from 17/8/2020 to 21/8/2020 at Government college of engineering, Thanjavur.
9. AICTE Training And Learning (ATAL) Academy Online FDP on "Waste Technology" from 2/11/2020 to 6/11/2020 at Manipal University Jaipur.
10. Technical Advances in Novel Materials, St.Xavier's Catholic College of Engineering, Chunkankadai, 05.10.2020 to 10.10.2020
11. IGEN GREEN9 SDG CONCLAVE 2020, The Institution Green Engineers - Energy Efficiency Research Group Green9, 02.10.2020 & 03.10.2020
12. Frontiers in Chemistry, St. Joseph's College of Engineering, OMR, Chennai - 600119, 06.09.2020 to 18.09.2020
13. Recent innovations in electrical, electronic, instrumentations, automation and teaching pedagogy. Sri Sairam Engineering College, 18.05.2020 TO 30.05.2020
14. Human Values, Ethics, Morals, Behavioral Science and Attitude, STTP, KIIT College of Engineering, Gurugram, 10.11.2020 TO 15.11.2020
15. Five Days Online Faculty Enrichment Programme on Computational Chemistry, Department of Chemistry & Centre for Research, Baselius College, Kottayam in association with Chemical Research Society of India (CRSI), 16th – 22nd December 2020.
16. Swayam Mooc and educational apps, IQAC AND SWAYAM, 28.05.2020 to 29.05.2020. Applications of Advanced Materials and Technologies in Chemical Science.
17. Easwari Engineering College, Ramapuram, 31.08.2020 to 04.09.2020
18. International Virtual FDP on Recent Trends on Current Science and Technology Easwari Engineering College, Ramapuram, 24.08.2020 to 28.08.2020
19. National Institute of Technology Raipur. 2020-12-8 to 2020-12-12 at Dynamic transformation of innovative teaching pedagogy (STTP)
20. VAAGADEVI COLLEGE OF ENGINEERING, HYDERABAD, 23 to 28 NOV 2020, Evolution from offline to online teaching.
21. Sathish parthan Dnyanasadhana college, Thane, 30.05.2020 to 3.06.2020
22. Finite element method for engineering application, Sri Sairam Engineering College, 07.09.2020 TO 12.09.2020
23. " EDUCATION 4.0 The Future Ahead", Sri Sairam Engineering College, 10.08.2020 to 14.08.2020
24. Enrichment Programme on Computational Chemistry, Department of Chemistry
25. Technical Advances in Novel Materials, St.Xavier's Catholic College of engineering, Chunkankadai, 05.10.2020 to 10.10.2020
26. IGEN GREEN9 SDG CONCLAVE 2020, the Institution Green Engineers - Energy Efficiency Research Group Green9, 02.10.2020 & 03.10.2020.
27. Frontiers in Chemistry, St. Joseph's College of Engineering, OMR, Chennai - 600 119, 16.09.2020 to 18.09.2020
28. Recent innovations in electrical, electronic, instrumentations, automation and teaching pedagogy, Sri Sairam Engineering College, 18.05.2020 TO 30.05.2020
29. Human Values, Ethics, Morals, Behavioral Science and Attitude, STTP, KIIT College of Engineering, Gurugram, 10.11.2020 TO 15.11.2020
30. Five Days Online Faculty & Centre for Research, Baselius College, Kottayam in association with Chemical Research Society of India (CRSI), 16th – 22nd December 2020.
31. Applications of Advanced Materials and Technologies in Chemical Science, Easwari Engineering College, Ramapuram, 31.08.2020 to 04.09.2020
32. International Virtual FDP on Recent Trends on Current Science and Technology
33. "Inculcating Universal Human Values in Technical Education", FDP, All India Council for Technical Education (AICTE) , 1 February, 2021 to 5 February, 2021.
34. Emerging Trends in Characterisation Techniques for Applied Polymer Research, 13.09.2021 To 17.09.2021 ATAL, CIPET
35. Outcome Based Education, WORKSHOP, INPOD, 29.09.2021

36. Metal Organic Chemical Vapor Deposition (MOCVD) growth of III-Nitrides- SAVEETHA SCHOOL OF ENGINEERING – 09.09.2021
37. "Outcomes-based Teaching, Assessments and Evaluation" INPOD 17.09.2021.
38. “Development of Quality Improvement Process – Optimizing faculty success”, organized by the Department of Science and Humanities, NIET, Coimbatore, 19-07-2021 to 23-07-2021.
39. Ict tools for effective teaching learning – 8th to 10th June - Kamala Nehru Mahavidhayalaya, Nagpur.
40. Refresher course in chemistry- FDP A.V.C college- 8-13 March 2021
41. Synthesis and functionalization of nanomaterials, Swarnadhara Engineering College, 10-15 May 2021.
42. National intellectual property awareness mission - TRAINING PROGRAMME -Feb 23 ,2022.
43. National level - SDP-VARIOUS SIMULATION TOOLS USED IN RESEARCH -online/ sathyabama institute of science and technology -28th feb2022 to 5th March 2022
44. IP awareness and training programme- NIPAM-FEB 23, 2022 - Sri sairam engineering college.
45. Advanced concepts of outcomes -based education – April 8, 2022 – Inpods ed-tech
46. Research methodology – Amar Sewa Mandal's Kamala Nehru Mahavidhayalaya. May2 –May 7 2022
47. Latest Trend in Additive Manufacturing - Dr. MGR Educational and Research Institute-03.06.24 - 07.06.24
48. Nanotechnology and its Applications - SHRI VAISHNAV VIDYAPEETH VISHWAVIDYALAYA, INDORE (ACT) - 24/4/24 to 26/4/24
49. Advanced Research Methodology for Social Science Research - Sri Sairam Engg College, MBA dept 27.5.24 - 1.6.24
50. Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems -12 WEEKS-NPTEL- April 2024

Symposium Attended: NIL

Conference Attended:

- “National conference on Non-conventional Energy Sources”- NESCON 2009 on 11th and 13th March 2009 at Guru Nanak College Chennai -42.
- Virtual conference on “materials for energy harvesting and catalysis –Tata institute of fundamental research, kolkata -01.05.2020-.3.05.2020.
- International virtual conference on "Advanced Materials for Sustainable Development" (ICAMSD- 2020), Department of Chemistry, Bannari Amman Institute of Technology, Sathyamangalam. 07.08.2020 & 08.08.2020.
- Advanced Materials on Energy and Environmental Applications (ICAMEEA 2020), Department of chemistry, School of Science and Humanities, BIST, BIHER, sponsored by TNSCST & in association with INHA University, South Korea & RSC South Indian Chapter 03.12.2020 & 04.12.2020
- International Conference on Chemical and Environmental Research (ICCER- th 2020) PG and Research Department of Physics, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020, 12.11.2020
- Recent advances in chemistry education & chem research (NCCT- 2020), Association of chemistry teachers, TIFR, 29.11.2020to 01.12.2020.
- International conference and Nanoscience and Nanotechnology, Bharath Institute of Science and Technology, 5th and 6th 2021.
- National Conference on “CHEMICAL SCIENCES FOR FUTURISTIC ADVANCEMENT” organized by the Easwari Engineering College Department of Chemistry on 01.09.2022 and 02.09.2022.
- Presented a paper entitled “Sensing of Metal Ions by Green Synthesised Silver Nanoparticles by Finical Fluorescent Emission”, Second International conference on “Advancements in Materials Science and Technology—iCAM 2022”, organised by Sathyabama Institute of Science and Technology, Chennai, India, in association with Alexander Dubček University of Trenčín, Slovakia, during November 02–04, 2022.
- Presented a paper on Web Based Disease Prediction and Forecasting with KNN and RNN using Internet of Medical Things, International Conference on Computer Power and Communication, Sri sairam institute of technology, 14th to 16 dec 2022.
- Presented a paper in International conference ICRTSR-23 titled “Photo catalytic activity of Bael gum assisted

green synthesized silver nanoparticles” in Dr. Ambedkar govt arts college -in association with TN State Council on 30 & 31 August 2023.

- Presented a paper in National conference NCEA-2023 in SRM VEC titled “Optical sensing of metal ions by green synthesized AgNPs” on 17.06.23.
- Presented a paper in International conference ICAM-22 titled “Sensing of metal ions by Green synthesized Silver Nanoparticles by Fincal Fluorescent Emission” in Sathyabama institute of science and technology on Nov 2- 4 2022.
- Presented a paper in International conference Bael gum based silver-palladium bimetallic nanoparticle as a selective and sensitive fluorescence turn off sensor for lead ion detection in environmental water - guru nanak college, 22.02.24- 23.02.24

Completed / Ongoing Projects:

Patent:

Publication Number: 202211061755 Topic: A novel organic fertilizer based on Nano Formulations, Publication Date - 29th of October 2022

Publication Number: 202211061755 Topic: Use of Graphite Nano-Platelets in Water Purification Membranes for Heavy Metal Removal Indian patent: 202341077122, Filing Date-11/11/2023 Published date-22/12/2023

Journal Publications:

1. B. Sreedevi, T. Amirthavarshini, S. Anitha and G. Shwetha, "Web Based Disease Prediction and Forecasting with KNN and RNN using Internet of Medical Things," *2022 International Conference on Computer, Power and Communications (ICCPC)*, Chennai, India, 2022, pp. 192-198, doi: 10.1109/ICCPC55978.2022.10072288.
2. Selvaraj A, Mukunda Murthy K, Rajmohan R. Omnipotent plant sources assisted green synthesis of Silver Nanoparticle - A promising Chemical Sensing tool. *JOTCSA*. 2024;11(2):899-918.
3. Kumar, S., Kubba, R., Agasti, N. *et al.* Potassium *tert*-butoxide promoted a direct one-pot synthesis of nitriles from aldehydes at room temperature. *J Chem Sci* 136, 39 (2024). <https://doi.org/10.1007/s12039-024-02282-6>
4. Selvaraj A.;Mukundamurthy K.;Rajmohan R.;Tamizhdurai P. Simple one potgreen synthesis of silver-palladium bimetallic nanoparticles: A fluorescent turn-off sensor for detection of lead ions in environmental water and its photocatalytic activity *South African Journal of Chemical Engineering* , Vol. 52 (2025) , pp. 243-257
5. Selvaraj A.;Mukundamurthy K.;Rajmohan Dual-functional bael gum stabilized silver nanoparticles-a sustainable paper-based sensor for detection of hg²⁺ ions and photo-catalyst for dye degradation R. *Rasayan Journal of Chemistry* , Vol. 18 (2025) , pp.797-804

Books / Book Chapters:

1.Green approach of nanoparticle synthesis – an overview- -S. Anitha, and M. Suganya in challenges and opportunities in new global business, science and technology. ISBN: 978-81-958752-6-9

2.Study of physico-chemical parameters of water by different analytical methods- M. suganya, S.Anitha, and P Suganthi in challenges and opportunities in new global business, science and technology. ISBN: 978-81-958752-6-9

3. Green chemistry - S Anitha & Dr.M. kannan in Modern trends in environmental chemistry book -Bright sky publication. ISBN: 978-93-6233-682-8

4: Reactive Intermediates: Carbocations, Carbanions, Free Radicals, and Carbenes- - S Anitha & Dr.M. Kannan- 2025. DOI: 10.4018/979-8-3693-6473-4.ch004 (Scopus)

Awards: Nil

Startup: Nil

Webinar:

1. National seminar on **“Recent trends in laser spectroscopy and its applications” (RTILSA -13)” on 17th Oct -2013 at Sri Sai ram engineering college.**
2. National seminar on **“Environmental issues & sustainable development”** 19th& 20th Nov – 2013 Sri Sairam engineering college.
3. One day seminar on **“Models & methods in bio inorganic chemistry”, at Loyola college.**
4. International webinar on chemistry, the American college, Madurai, 29th may 2020
5. Smart topics in chemistry, international webinar, Govt Arts College, Tiruchirapalli, June 1st&2nd 2020.
6. National level Webinar on Principles and application of Electronic Spectroscopy. Annai college of Arts and science on 7th May 2020.
7. Webinar on SERB PM C-II fellowship Webinar on April 7th 2020
8. Indias First leadership talks series MHRD on 9th May 2020.
9. Webinar on Overcoming Covid -19 Bhavan’s Vivekananda College on 13th May 2020.
10. Webinar on MSNPS for Cancer therapy C. Abdul Hakeem College on 18th May 2020.
11. National level webinar, An insight into NAAC –Raf V.O Chidambaram College on 22nd May 2020.
12. National level on Energy, Water and resources saving. How to go about sustainability. Stella Maris College on 23rd May 2020.
13. Webinar on CO-PO- attainment computations and outcomes – In pod on 1st June 2020.
14. Webinar on NAAC Accreditation management system demo – In pods June 2nd 2020.
15. National level webinar Application of Group theory to Spectroscopy. Anna University 24th July 2020.
16. National level webinar on Research Methodology, on 12th and 13th June 2020. Loyola College Chennai.
17. National level webinar on Scintillating Chemistry by Association of Chemistry teachers on June 28th 2020.
18. Preparation Of Nanomaterials For Energy And Environmental Application, Nehru Institute of Engineering And Technology, 06.10.2020
19. Effective Virtual Classroom Teaching for Teachers, Sri Sairam Engineering College, 19.06.2020
20. National tech meet on micro & Nano fabrication & characterisation tech, Kamaraj college,9th Nov 2020
21. R&D - Proposal Writing, Sri Sai Ram Engineering College, 12.06.2020
22. Identifying Intellectual Property Components at the early stage of Innovation, Sri Sai Ram Engineering College, 17.12.2020
23. IGEN Legendary Seminar 01, The Institution of Green Engineers in association with 7 Institution Partners on 26.12.2020
24. Copyright in an intellectual property, Sri sairam engineering college, 28.01.2021
25. "Emerging Applications of Radiation in Nanotechnology" held on 26th February, 2021. Dr B C Roy Engineering College, Durgapur
26. Webinar on NAAC NBA Accreditation management system demo – In pods Feb 24 2021.
27. Vivekanandha College Of Arts And Sciences For Women, Elayampalayam, Tiruchengode. International Virtual Seminar on Advances in Chemical Sciences, ACS-21, on 08.03.2021
28. Innovation in science and technology, 27 Feb 2021, Smt Narsamma art, commerce and Science College.
29. Sustainable chemistry teachers, IWSC, Association of Chemistry teachers, Mumbai, 18th March 2021.

30. Application of natural dyes –Erode Sengundhar engineering college, Erode, 11th may 2020
31. Electroanalytical Techniques for water splitting Do's and Don't s – Saveetha Engineering college -27.05.2020
32. 3 days national webinar-modern trends in environment, Annai velankanni college – kanyakumari, 16 To 18 JUNE 2021.
33. FOOD SAFETY AND HYGIENE, ANNAI COLLEGE of arts and science – 7.06.21
34. Awareness of covid & importance of vaccination - annai velankanni college -12.06.21
35. ENERGY MATERIAL- SATHYABAMA institute of science and technology –4.06.21
36. National Webinar on Recent Development for Chemistry Teachers. KARUNYA DEEMED UNIVERSITY- 05.06.21
37. Principles of Food Safety for a Healthy Tomorrow –NITTTR-06.05.21
38. "Emerging Applications of Radiation in Nanotechnology"- Dr B C Roy Engineering College, Durgapur- 26.02.21
39. Dr B C Roy Engineering College, Durgapur- Sri Sairam Engg College -18.03.21
40. Principles of Food Safety for a Healthy Tomorrow- PAAVAI ENGINEERING COLLEGE -07.06.21
41. International Webinar - Empowering Diversity in Science -ASSOCIATION OF CHEMISTRY TEACHERS - 2/16/2022NEP 2020 Implementation using change management. 21.04.22 – Sri Sairam Engineering college.
42. Environmental pollution - SRM Valliammai Engineering College, 20.04.2022
43. Awareness meet on material science with ion accelerator – 19 july 2022 – UGC-DAE CONSORTIUM FOR SCIENTIFIC RESEARCH, KALPAKKAM.

Resource Person:

1. Judge in Science Competition vivekanda school, chitilapakam chennai
2. Quiz master and judge Vanfest event BRAINIACS' LOUNGE, vanavani school , adyar, chennai

Online Courses:

1. Completed NPTEL course on title “Organometallic chemistry” with ELITE grade
2. Completed NPTEL course on title “Coordination chemistry” with ELITE grade
3. Completed NPTEL course on title “Stereochemistry ”
4. Completed NPTEL course on title “Reactive Intermediate Carbenes and Nitrenes”
5. Completed NPTEL course on title “Enhancing soft skill and personality” with ELITE-SILVER grade and 7 days FDP
6. Introduction to Google Docs, Coursera, 25.05.2020
7. Create Your First Python Program, Coursera, 25.05.2020
8. Air Pollution – a Global Threat to our Health, Coursera, 18.05.2020
9. Beyond the Sustainable Development Goals, Coursera, 06.06.2020
10. Introduction to Molecular Spectroscopy, Coursera, 24.06.2020
11. Weight Management, Beyond Balancing Calories, Coursera, 05.06.2020
12. Practical Introduction To Command Line , Coursera, 04.06.2020
13. Natural Attenuation Of Groundwater Contaminants, New Paradigms, Technology & Application, Coursera, 13.06.2020
14. Introduction To Python, Coursera, 04.06.2020
15. Spreadsheet For Beginners Using Google Sheets, Coursera, 27.06.2020
16. How To Write And Publish A Scientific Paper, Coursera, 20.05.2020
17. General Chemistry ,Concept Development And Application, Coursera, May 2020
18. Introduction To Data Analytics, Simple Learn, April 12th 2020
19. Introduction To Iot, Simple Learn, April 10th 2020
20. Chemistry - Molecules And Their Composition – Revised, Alison, Apr 2020
21. Data Science and Master Class with r! 4 projects & 8 case studies, Udemy, Nov 2019
22. Online Refresher Course In Chemistry For Higher Education, Swayam Arpit, 16.2.2020
23. Online Refresher Course In chemistry In Day To Day Life, Jamal Mohamed College, 04.06.2020 TO 08.06.2020

24. Virtual organic chemistry Lecture series, Sathyabama Institute of Science & Technology, 22.06.2020 - 27.06.2020
25. Online course in Evolution of Modern Periodic, Sri Krishna College of Engineering and Technology, Coimbatore, 01/05 & 02/05
26. Electronic waste management - issues and challenges – NPTEL – JAN-FEB 2021
27. Completed NITTTR – Module 4 – Instructional planning and Delivery, Oct 2021.
28. Completed NITTTR – Module 3-Communication Skills, Modes and Knowledge Dissemination), September 2021.
29. Completed NITTTR – Module 1
30. Completed NITTTR – Module 5
31. Completed Online course in UDEMY “Nanotechnology introduction, essentials and opportunities” on 22nd Nov 2023. (61 lectures, 4.5 hours)
32. Completed 3 months certificate course in SIRD with B grade.
33. Completed Online course in NPTEL titled “Nano bio photonics” with 73% Elite silver.
34. Completed Online course in NPTEL titled Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems.
35. Completed Online course in UDEMY titled Nano technology introduction, essentials and opportunities.
36. Completed Online course in UDEMY titled Surface analysis.
37. Completed Online course in UDEMY titled XRD data analysis and interpretation.