

Name: Dr. V.T.GEETHA	Photo 			
Designation:	Associate professor			
Qualification:	MSc. M.Phil., Ph.D.,			
Area of specialization:	CHEMISTRY			
Experience:	Industrial Experience		Teaching Experience	
			22	
Number of workshops / FDP attended:	Number of Workshops		Number of FDPs	
	14		22	
Publications:	Conference		Journal	
	National	International	National	International
	4	10	1	17
Books / Book Chapters	2			
Patents:	National		International	
	3			
Professional Body Membership	4			

Staff Achievements

- Received best Faculty Award from Tech Forum Research Foundation on 20.3.2024
- Completed NITTTR eight modules.
- Reviewed international journals
- Anna University Recognised Supervisor
- One of the top 100 mentors of ATL Trinkerpreneur 2023.

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	1998	Annai Velankanni college	Manonmani am Sundaranar University	62.39	I
PG	M.Sc	General Chemistry	2001	Annai Velankanni college	Manonmani am Sundaranar University	63.37	I
	M.Phil	General Chemistry	2005	-	Manonmani am Sundaranar University	60.25	I
Ph.D.	Ph.D.	Nano Materials	2021	-	Hindustan University		

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering College	Associate Professor	05.08.2015	Till date	10	3	12
Sri Sairam Engineering College	Assistant Professor	01.08.2011	04.08.2015	4	0	3
Sri Sairam Engineering College	Senior Lecturer	05.08.2009	04.08.2011	1	11	30
Saveetha University	Lecturer	12.10.2006	04.08.2009	2	11	8
Bharath University	Lecturer	02.09.2003	11.10.2006	3	1	9
				22	2	13

Workshops/Seminars attended : 15

FDP/STTP Attended : 22

Symposium Attended : 0

Conference Attended : 14

Completed / Ongoing Projects : 3

Patent	: 3
Journal Publications	: 18
Books / Book Chapters	: 5
Awards	: 4
Startup	: 0
Webinar	: 12
Resource Person	: 0
Online Courses	: 38

Workshops/Seminars:

1. Workshop on Industry-Institution Interaction Event on Environment Management in Industrial sector-Status and Needs on 24th to 25th July 2015.
2. National seminar on “Environmental issues and sustainable development” on 11th and 12th Nov 2013 at Sri Sairam Engineering College.
3. Workshop on “Art of Journal and Thesis writing” on 19th Jan 2012 at Sri Sairam Engineering College.
4. Workshop on “Recent trends in Analytical Instrumentation” on 12th April 2005 at S.R.M. Engineering College, Kattankulathur.
5. Online Workshop on Inculcating Universal Human Values in Technical Education. AICTE, 12th to 16th October 2020.
6. DST-FIST Sponsored Virtual Workshop on “Scanning Electron Microscopy” on 5th to 6th October 2021 at Sethu Institute of Technology.
7. Workshop on “Sustainable Materials Advances and Applications”, on 22nd July 2022 at SRM Institute of Science and Technology.
8. National seminar on “NEP 2020 Implementation using Change Management Concepts in Higher Educational Institutes”, on 21st April 2022 at Sri Sairam Engineering College
9. National level workshop on, “An Overview of Patents & Procedure for Protection” on 20th January 2023 at Ramco Institute of Technology.
10. National level workshop on, Applications of Amorphous and Nanostructured Magnetic Materials for Transformer core” on 28th February 2023 at SRM TRP Engineering College.
11. National level workshop on, “Societal Advancement powered by Nuclear Energy” on 2nd March 2023 at SRM TRP Engineering College.

12. National level workshop on, “Density Functional Theory” on 6th March 2023 at SRM TRP Engineering College.
13. National level workshop on, “Women in Science and Technology” on 9th March 2023 at SRM TRP Engineering College.
14. National level workshop on, “National Level Education Policy ” on 11th March 2023 at SRM TRP Engineering College
15. National level workshop on, Synthesis of Nanomaterials using Electrochemical Methods, Characterisation and Application on 26th July 2024. at Sri Sairam Engineering College.

FDP/STTP:

1. Faculty development programme on “Characterization of Materials on 20th and 21st July 2017 at Sri Sairam Institute of Technology
2. Faculty development programme on “Engineering Teaching Pedagogy and Effective Learning Process”, 3rd to 7th December 2018.
3. Attended the AICTE sponsored short term training programme on “Natural Fiber Composites –Recent technology for Sustainability and Eco-friendly Environment” at Sri Sai Ram Engineering College from 24th to 29th June 2019.
4. Attended the MHRD sponsored MHRD FDP on “Recent innovation in Electrical, Electronics, Instrumentation, Automation and Teaching Pedagogy from 18th to 30th May 2020 at Sri Sairam Engineering College..
5. Attended the ATAL FDP Energy Engineering 5th to 9th October 2020, at Netaji Subhas University of Technology.
6. Attended the FDP on Recent Innovations in Electrical, Electronics, Instrumentation, Automation and Teaching Pedagogy 18th to 30th May 2020, at Sri Sairam Engineering College.
7. Attended the International FDP programme on EDUCATION 4.o The Future Ahead, 10th to 14th August 2020. at Sri Sairam College of Engineering, Bengaluru.
8. Attended the Human Values, Ethics, Morals, Behavioural Science and Attitude by AICTE 10th to 15th Sep 2020, at KIIT college of Engineering Gurugram.
9. Online Five Days Faculty Development Program on, “:Medical Image Analysis”, on 2nd to 7th Nov 2020 at V.S.B. Engineering College.
10. Attended the Five Days International Faculty Development Program on “Nanomaterials”, on 23rd to 27th November 2021 at St. Mary’s College.
11. Attended the Face-face UHB=II FDP, organized by AICTE at Sri Sairam Engineering College, Chennai, 26th to 30th July, 2022.
12. Two Days Online Faculty Development Program on Condensed Matter Physics” on 24th and 25th January 2022 at Jamal Mohamed College

13. Five Days International Faculty Development Program on (FDP-2.0) “Recent Research in Material Physics & Nano Devices”, by IQAC, 21st to 25th November 2022 at Rajas College.
14. Online Five Days Faculty Development Program on, “Insights on Emerging Research in Chemical Science (IERCS-2022)”, 10th to 14th October 2022 at National Institute of Technology, Andhra Pradesh
15. Online Five Days Faculty Development Program on, “Advanced Materials for Energy Applications”, 9th to 13th October 2023 at Sathyabama Institute of Science and Technology.
16. Attended Five Days Faculty Development Program on Nanotechnology in Biomedical Applications”, 13th to 18th March 2023 at Karpagam Academy of Higher Education.
17. International level FDP on, “Advanced Functional Materials:Energy Environment and Sustainable Development ” on 26th February to 5th March 2024 at SRM TRP Engineering College
18. Online Two week Faculty Development Program on, “ Frontiers in Material Research, Innovations and Entrepreneurship (FMRIE’24) Advanced Materials for Energy Applications”, 25th July to 08th August 2024 at Sri Sairam Engineering College.
19. Attended Five Days Faculty Development Program on “ Recent Advancements in Chemistry”, Nanotechnology in Biomedical Applications”, 26th to 29th June 2024 at Easwari Engineering College.
20. Attended one week Faculty Development Program on “ Advanced Research Methodology for Social Science Research”, , 27th May to 01th June 2024 at Sri Sairam Engineering College.
21. Attended six days Faculty Development on “ Smart and Sustainable Materials: Advances in Material Chemistry for Global Challenges”, 21st July 2025 to 26th July 2025 at SMR Institute of Science and Technology.
22. Attended seven days Faculty Development on “ Innovation in Chemical Technologies for Industrial Applications”, 28th July 2025 to 02nd August 2025 at Easwari Engineering College.

Conferences:

1. National level Symposium on Emerging Trends in Biotechnology, Anti-bacterial Investigations of Isolated flavonoids of P.Murex on 29th and 30th Sep 2005 at Shri AndalAlagar College of Engineering.
2. National seminar on GENES TO GENOMICS, Wound healing Investigations on the Isolated Flavonoids of C.Pulcherrima on 22nd Sep 2005 at Bharath University.

3. National level seminar on “Recent Trends in Laser Spectroscopy and its Applications” on 17th Oct 2013 at Sri Sairam Engineering College.
4. JEUNES ESPRITS D'ÉVOCATION VERS L'ESPRIT D'ENTREPRISE on 8-10 Jan 2013 at Sri Sairam Engineering College
5. National level workshop on “Advancements in Chemical sciences on 18th July 2016 at Sri Sairam Institute of Technology.
6. International conference on “Mechanical, Materials and Manufacturing systems on 24th to 25th February 2016 at Sri Sairam Engineering College.
7. National conference on “Chemistry & Materials”, on 22nd March 2019 at Saveetha Engineering College.
8. National conference on “Current trends in Energy Conversion Devices and Environment 22nd to 23rd February 2019 at Selvam Arts and Science College.
9. International conference on Indo-UK International Virtual Conference on “Advanced Nanomaterials for Energy and Environmental Applications” on 16th to 18th September, 2020, at Alagappa University.
10. International conference on “Advances in Mechanical Engineering”, on 27th to 28th January 2021 at Sri Sairam Engineering College.
11. National Conference on “Emerging Materials and Nanotechnology” on 28th to 29th Feb 2020, at Thiruvalluvar Government Arts College, Rasipuram.
12. International conference on instigating Research in Materials, energy and Environment 6th to 7th Oct 2021.
13. International Virtual conference on “Chemical Research for Sustainable Development, on 24th to 25th Sep 2021 at SRM Institute of Science and Technology, Chennai.
14. National virtual conference on “Intelligent Computing and Control for Engineering and Business Systems”. ICCEBS, IEEE, Nov 2023.

Projects Applied

1. Project Title: Pico/Nanometre-Sized Plant and Animal Activated Charcoal for Enhanced Filter Bed Applications in Reverse Osmosis Processes for Industrial Water Treatment
Reference Number: DST-PN-2024/001
Institution/Organization: Department of Science and Technology in India.
2. Project Title: Pico/Nanometre-Sized Plant and Animal Activated Charcoal for Enhanced Filter Bed Applications in Reverse Osmosis Processes for Industrial Water Treatment
Reference Number: DST-PN-2024/001
Institution/Organization: Department of Science and Technology in India.
3. Project Title: Project Minor AI
Reference Number: SIH1384
Institution/Organization: IEEE, USA

Patent filed

Patent Number: 202241058170. Topic: Graphene nanocomposites having novel hybrid compositions and method thereof. Published Date:10.10.2022. Status: **Published**

Patent Number: 202341069380. Topic: Green Chemistry Approach to Noble Metal Nanoparticle Formation with Waste Biomass. Published Date:24.11.2023. Status: **Published**

Patent Number: 202441067766. Advanced Techniques for the characterisation and Analysis of Nanoscale Material Properties. Published Date:09.09.2024. Status: **Published**

Journals:

International:

1. **V.T.Geetha**, G.Puthilibai, S.Induja, "A starch-assisted innovative synthesis of spinel-structured and ferromagnetic behavior of Fe_3O_4 nanoparticles catalytic activity evaluated in the selective oxidation", **SN Applied Sciences**. Vol.1, No.1, pp.472, 2019.
2. **V.T.Geetha**, G.Puthilibai, S.Induja, "Synthesis, Properties and Catalytic Applications of Co_3O_4 Nano Materials with Photoluminescence Emission spectra for Oxygen Vacancies", **Journal of Advanced Science Engineering and Medicine**. Vol.11, No.7, pp.600-605, 2019.
3. **V.T.Geetha**, G.Puthilibai, S.Induja, "A new Understanding of Mn_3O_4 catalysts Different Fuels for Highly Selective Oxidation of Cyclohexane ", **Sensor Letters**. Vol.17, No.7, pp.530-537, 2019.
4. **V.T.Geetha**, S.Induja, G.Puthilibai, "Effects on the Crystal Structure, Magnetic and Optical Properties Nd doped Co_3O_4 Nanoparticles Prepared by Microwave Synthesis", **Journal of Superconductivity and novel Magnetism**. Vol 32, No4, pp1-7, 2019.
5. **V.T.Geetha**, G.Puthilibai, "Green Synthesis and Catalytic Applications of Fe_3O_4 Nano Materials", **SSEC Tech Journal**. Vol.11, pp.11-16, 2019.
6. **V.T.Geetha**, S.Induja, G.Puthilibai, "Study of the effect of Photoluminescence Structural and Magnetic Properties of Nd doped $\text{Nd}_x\text{Ni}_{1-x}\text{O}_x$ hexagonal Particles", **Physica E**, Vol.118,2020.
7. **V.T.Geetha**, , S.Induja, G.Puthilibai, "Influence of structural, Thermoelectric power and Catalytic Efficiency of Nd doped Mn_3O_4 ", **Asian Journal of Chemistry**, Vol.32,147-152,2020.
8. C. Selvakumar,; A. Fiaz Ahamed,; **V.T. Geetha**,. Enhanced Transparency and Antibacterial Activity of Silver Doped Cadmium Sulfide Nanoparticles, AIP Conference Proceedings, 2020, 2464, 020006

9. **V.T.Geetha**, S.Induja, "Nd-Doped Fe₃O₄ Nanoparticles: Microwave Synthesis, Catalytic Properties in Selective Oxidation of Styrene". **Asian Journal of Chemistry**. Vol. 33, No. 3, pp.583-590, 2021.
10. **V.T.Geetha**, S.Induja, "Structure, Morphological, Magnetic and Antibacterial Studies of Undoped and Ce/Mg-doped NiO nanoparticles semiconductors by Microwave method. **Journal of Superconductivity and novel Magnetism**. Vol 34, No4, pp. 2003-2018, 2022.
11. C.Ragupathi, **V.T.Geetha**, S.Narayanan, P.Thamizhthurai, G.Ramalingam,"Study of Ce-doping Effects on optical, morphological, magnetic,structural and anti-bacterial properties of NiCr2O4 ceramics". **Materials Science & Engineering B**. Vol 291,pp. 116358 -2023.
12. **V.T.Geetha**,C.Selvakumar,T.Amirthavarshini and C.Govindaraju "Investigations on Structural, Magnetic and Electrical Properties of Fe₃O₄ Nanoparticles". **Intelligent Computing and Control for Engineering and Business Systems**. ICCEBS, IEEE, 2023.
13. C.Selvakumar, **V.T.Geetha**, C.Govindaraju and T.Amirthavarshini, "Optical And Antioxidant Applications of Zinc Sulfide Doped Nano Biomateria"l,**Intelligent Computing and Control for Engineering and Business Systems**. ICCEBS, IEEE, 2023.
14. **V.T.Geetha**,C.Selvakumar,S.Shravan Kumar,S.Gopinath,C.Ragupathi and A.Rajendiran "Effect of morphological and particle size on the physical properties of Sr doped cobalt chromite for catalysis application", **Chemistry of Inorganic Materials**. 2024, 100058.
15. C.Selvakumar,**V.T.Geetha**, S.Sathiyamoorthi, R.Sharan, " Third order NLO study of Manganese doped copper Sulfide Nanoparticles for Optical Evolution", **Journal of Nonlinear Optical Physics & Materials**, 2025
16. C.Selvakumar, **V.T.Geetha**, "Synthesis, Characterization and Catalytic Applications of Spinal Neodymium Doping in Co₃O₄ Nanocatalyst for conversion of styrene to benzaldehyde", **Journal of Reaction Kinetics, Mechanisms and Catalysis**.2025.
17. C.Selvakumar, **V.T.Geetha**, "Enhancing Optical and Antioxidant Functionality in Zinc doped Nickel sulphide Nanoparticles", *Asian Journal of Chemistry*.2025.
18. C.Selvakumar, **V.T.Geetha**, "Tunable nonlinear optical response in Zn-doped Cds nonmaterial: a route to next-generation photonic devices", **Journal of Optics**, Springer Nature, 2025.

Book Chapter

1. **Dr. V.T. Geetha**, Dr. C. Selvakumar and T. Amirthavarshini, Green Synthesis, Properties And Catalytic Applications Of Fe₃O₄ Nano Materials For Sustainable Development, Emerging Trends in Business and Technology for sustainable Development, Wisdom Publication, ISBN- 978-81-956844-1-0, pp. 151-158, 2022
2. C.Selvakumar and **V.T.Geetha**, Synthesis, Characterization and Application of Bimetallic Sulfide Nanocomposites for need of Sustainable Development, Emerging Trends in Business and Technology for sustainable Development, Wisdom Publication, ISBN- 978-81-956844-1-0, pp. 35-50, 2022.

Awards:

- Received best Faculty Award from Tech Forum Research Foundation on 20.3.2024.
- Ideathon Appreciation Award.
- Top 100 Mentos of Atal Tinkerpreneur 2023.
- Anna University Recognized Supervisor in Chemistry.
- Editorial Board member in Nanoscience and Nanometrology

Webinar:

1. Webinar Series on “Research “, VISTAS, 22nd June to 24th June 2020.
2. Online Webinar on “Recent trend in Covid-19, Diagnosis and Management” , VISTAS, 3rd June2020.
3. National level webinar on “ Watershed Prioritization”, VMRF, on 30th May 2020
4. International level webinar on “Influence of Electromagnetic Theory in 5G Applications”, Sri Sairam Engineering College, 31st October, 2020.
5. International Webinar on “Natural Products and Drug Development”, at Crescent Institute of Science and Technology, Chennai on 4th to 6th October 2021
6. Webinar on “Magnetic Nanocarriers for Enhanced Enzyme Activity”, at Prathyusha College of Engineering, Chennai, on 30thMay 2020
7. National level webinar on “Environment and Cancer”, at Arasu Engineering College, Kumbakonam, 3rd Feb 2021.
8. Webinar on “Intellectual Property Rights with Focus on Patent in Mathematics”, Sri Sairam Engineering College, 3rd Feb 2021
9. International Webinar on “Surface Chemistry and Catalysis”, on 16th December 2021.
10. Webinar on “Raman Spectroscopy and its Applications in Materials Science”, on 28th January 2022
11. National Webinar on,” Two Dimensional Materials: Graphene and Beyond”, at Sathyabama Institute of Science and Technology, on 28th March 2022.
12. Webinar on “Nanomaterials and their Applications”, at Bharath University on 30th November 2022.

ON - LINE COURSES

1. Completed one online course (NPTEL-**Manufacturing of composites**)” Eight weeks, Successfully completed with “**Elite**” category, along with FDP 2018.
2. Udemy : Complete General Chemistry, 10th July 2020-08-14
3. Simpli Learn: Introduction to IOT, 05th April 2020
4. Simpli Learn: Introduction to Cybersecurity, 07th April 2020
5. Coursera: Introduction to Psychology, 19th May 2020
6. Coursera: Gmail.The foundation to Accessing Google Apps, 19th May 2020
7. Coursera: Spreadsheet for Beginners using Google Sheet, 19th May 2020
8. Coursera: Create Informative Presentation with Google Slides, 19th May 2020
9. Coursera: The Sustainable Development Goals-A global, transdisciplinary vision for the future, 19th June2020.
10. Coursera : Grow to Greatness: Smart Growth for private Business Part I, 19th June2020
11. Coursera : Grow to Greatness: Smart Growth for private Business Part II, 19th June2020
12. Coursera :The Holocaust- An Introduction(1): Nazi Germany: Ideology, The Jews and the world, 19th June2020
13. Coursera : Ecology: from cells to Gaia, 19th June2020
14. Coursera : Beyond the Sustainable Development Goals: Addressing Sustainability and Development, 18th June2020
15. Coursera: Social Psychology, 09th June 2020.
16. International Virtual Seminar on, “Advances in Chemical Science”, at Vivekananda College of Arts and Sciences for Women on 8th March 2021
17. Attended Training Program on National Intellectual Property Awareness Mission at Intellectual Property Office on 18th April 2022.
18. Completed on, “Scientific Writing and Health Research”, National Institute of Epidemiology, on 20th May 2022.
19. Completed one online course (NPTEL- Introduction to Environmental Engineering and Science -Fundamental and Sustainability concepts) of twelve weeks with the elite category along with FDP.
20. Scouts: A Journey to Growth 20th June 2024.
21. Scouts: Blended Learning 28th June 2024.
22. Scouts: Growing Together (Understanding the growth context) 28th June 2024
23. Scouts: How healthy is my screen time? 28th June 2024

24. Completed one online course (NPTEL-Technologies for clean and Renewable Energy Production)” Eight weeks, Successfully completed with “**Elite with Silver**” category, along with FDP 2024.
25. Completed one online course (NPTEL-Physics of Renewable Energy Systems” Twelve weeks, Successfully completed with “**Elite**” category, along with FDP 2024.
26. Completed one online course (NPTEL-Basic Environmental Engineering and Pollution Abatement)” Twelve weeks, Successfully completed with “**Elite with Silver**” category, along with FDP 2024.
27. Completed one online course (NPTEL-Physics for Renewable Energy Systems Pollution Abatement)” Twelve weeks, Successfully completed with “**Elite with Silver**” category, along with FDP 2024
28. Completed one online course (NPTEL-Sustainable Engineering concept and Life cycle Analysis)” Twelve weeks, Successfully completed with “**Elite** ” category, along with FDP 2025.
29. Completed “Panchayat Administration and Rural Development Schemes”, State Institute of Rural Development and Panchayat Raj, 2025
30. Completed, Social Emotional Education: Knowledge to Practice (SEEK), 2025.

NITTTR Courses:

1. Module: 1 - Orientation towards Technical Education and Curriculum Aspects, February 2023.
2. Module: 2 - Professional Ethics & Sustainability, February 2023.
3. Module: 3 - Communication Skills, Modes and Knowledge Dissemination, September 2021.
4. Module: 4 - Instructional Planning and Delivery, February 2023.
5. Module: 5 - Technology Enabled Learning & Life Long Self Learning, July 2022.
6. Module: 6 - Student Assessment and Evaluation, February 2023.
7. Module: 7 - Creative Problem Solving, Innovation and Meaningful R&D, February 2023.
8. Module: 8 - Institutional Management & Administrative Procedures, February 2023.

Professional Membership

- Life Member, Indian Society for Technical Education
- Member, IEEE from 2020.
- Life Member, Asian Chemical Society
- International Association of Academic plus Corporate Society - [IAAC]