


# Sri Sai Ram Engineering College

## Department Of Humanities And Sciences

<b>Name : Dr. V.T.GEETHA</b>	
	
<i>Designation :</i>	<i>Associate professor</i>
<i>Qualification :</i>	<i>MSc. M.Phil., Ph.D.,</i>
<i>Area of Specialisation</i>	<i>CHEMISTRY</i>
<i>Experience :</i>	<i>Teaching : UG : 20.4 yrs</i>
	<i>PG : yrs</i>
	<i>Industry : yrs</i>
<i>No. of Workshop / Conferences / FDP attended</i>	<i>71</i>
<i>Publication :</i>	<i>Journal</i>
	<i>National : 1</i>
	<i>International : 9</i>
	<i>Conference</i>
	<i>National : 7</i>
	<i>International : 4</i>
<i>Research Guidance :</i>	

<i>General :</i>	<ul style="list-style-type: none"> <li>• I have compiled the Anna University (CY6151 – Engineering Chemistry – I) semester exam question paper for the year Nov/Dec2016 which has been assigned for all colleges affiliated to Anna University.</li> </ul>
<i>Staff Achievements</i>	<p>Achieve 100% result in</p> <ul style="list-style-type: none"> <li>• Engineering Chemistry I,</li> <li>• Engineering Chemistry II,</li> <li>• Environmental Science and Engineering many times.</li> </ul>

### **Educational Qualification:**

<b>Category</b>	<b>Name of the Degree</b>	<b>Specialization</b>	<b>Year of Passing</b>	<b>Name of the College</b>	<b>Name of the University</b>	<b>% of Marks / Grades obtained</b>	<b>Class obtained</b>
<i>UG</i>	<i>B.Sc</i>	<i>General Chemistry</i>	<i>1998</i>	<i>Annai Velankanni college</i>	<i>Manonmanium Sundaranar University</i>	<i>62.39</i>	<i>I</i>
<i>PG</i>	<i>M.Sc</i>	<i>General Chemistry</i>	<i>2001</i>	<i>Annai Velankanni college</i>	<i>Manonmanium Sundaranar University</i>	<i>63.37</i>	<i>I</i>
<i>Ph.D.</i>	<i>M.Phil</i>	<i>General Chemistry</i>	<i>2005</i>	<i>-</i>	<i>Manonmanium Sundaranar University</i>	<i>60.25</i>	<i>I</i>
<i>Ph.D.</i>	<i>Ph.D.</i>	<i>Nano technology</i>	<i>2021</i>	<i>-</i>	<i>Hindustan University</i>		

### **Academic Experience:**

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
<i>Sri Sairam Engineering College</i>	<i>Associate Professor</i>	<i>05.08.2015</i>	<i>Till date</i>	<i>7</i>	<i>6</i>	<i>23</i>
<i>Sri Sairam Engineering College</i>	<i>Assistant Professor</i>	<i>01.08.2011</i>	<i>04.08.2015</i>	<i>4</i>	<i>0</i>	<i>3</i>
<i>Sri Sairam Engineering College</i>	<i>Senior Lecturer</i>	<i>05.08.2009</i>	<i>04.08.2011</i>	<i>1</i>	<i>11</i>	<i>30</i>
<i>Saveetha University</i>	<i>Lecturer</i>	<i>12.10.2006</i>	<i>04.08.2009</i>	<i>2</i>	<i>11</i>	<i>8</i>
<i>Bharath University</i>	<i>Lecturer</i>	<i>02.09.2003</i>	<i>11.10.2006</i>	<i>3</i>	<i>1</i>	<i>9</i>
<b>Total</b>				<b>19</b>	<b>6</b>	<b>17</b>

## PUBLICATIONS

### 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, G.Puthilibai**, "Green Synthesis and Catalytic Applications of  $Fe_3O_4$  Nano Materials", **SSEC Tech Journal**. Vol.11, pp.11-16, 2019.
5. **V.T.Geetha, S.Induja, G.Puthilibai**, "Study of the effect of Photoluminescence Structural and Magnetic Properties of Nd doped  $Nd_xNi_{1-x}O_x$  hexagonal Particles", **Physica E**, Vol.118, 2020.
6. **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.

7. **V.T.Geetha**, S.Induja, G.Puthilibai, "Effects on the Crystal Structure, Magnetic and Optical Properties Nd doped Co<sub>3</sub>O<sub>4</sub> Nanoparticles Prepared by Microwave Synthesis", **Journal of Superconductivity and noval Magnetism**. Vol 32, No4, pp1-7, 2019.
8. **V.T.Geetha**, S.Induja, "Nd-Doped Fe<sub>3</sub>O<sub>4</sub> Nanoparticles: Microwave Synthesis, Catalytic Properties in Selective Oxidation of Styrene". **Asian Journal of chemistry**. Vol. 33, No. 3, pp.583-590, 2021.
9. **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 noval Magnetism**. Vol 34, No4, pp. 2003-2018, 2022.
10. 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 NiCr<sub>2</sub>O<sub>4</sub> ceramics". **Materials Science & Engineering B**. Vol 291, pp. 116358 -2023.
11. V.T.Geetha, C.Selvakumar, T.Amirthavarshini,

## Book Chapter

1. **Dr. V.T. Geetha**, Dr. C. Selvakumar and T. Amirthavarshini, Green Synthesis, Properties And Catalytic Applications Of Fe<sub>3</sub>O<sub>4</sub> Nano Materials For Sustainable Development, Emerging Trends in Bussiness 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 Bimettalic Sulfide Nanocomposites for need of Sustainable Development, Emerging Trends in Bussiness and Technology for sustainable Development, Wisdom Publication, ISBN- 978-81-956844-1-0, pp. 35-50, 2022.

## Patent filed

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

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

## Details of Research Projects

### M. Phil. Project:

Phytochemical and Pharmacological Studies on Medicinal Plants

### Ph.D. project:

Studies on Structural, Optical, Magnetic and Catalytic Properties of Nd-Doped 3d-Metal Oxides

**Conferences:**

1. *National conference on "Chemistry & Materials", on 22<sup>nd</sup> March 2019 at Saveetha Engineering College.*
2. *National conference on "Current trends in Energy Conversion Devices and Environment 22<sup>nd</sup> and 23<sup>rd</sup> February 2019 at Selvam Arts and Science College.*
3. *International conference on "Mechanical, Materials and Manufacturing systems on 24<sup>th</sup> and 25<sup>th</sup> February 2016 at Sri Sairam Engineering College.*
4. *National level workshop on "Advancements in Chemical sciences on 18<sup>th</sup> July 2016 at Srisairam Institute of Technology.*
5. *National level seminar on "Recent Trends in Laser Spectroscopy and its Applications" on 17<sup>th</sup> Oct 2013 at Sri Sairam Engineering College.*
6. *JEUNES ESPRITS DEVOCATION VERS L'ESPRIT D'ENTERPRISE on 8-10 Jan 2013 at Sri Sairam Engineering College*
7. *National seminar on GENES TO GENOMICS, Wound healing Investigations on the Isolated Flavonoids of C.Pulcherrima on 22<sup>nd</sup> Sep 2005 at Bharath University.*
8. *National level Symposium on Emerging Trends in Bio-technology, Anti-bacterial Investigations of Isolated flavonoids of P.Murex on 29<sup>th</sup> and 30<sup>th</sup> Sep 2005 at Shri AndalAlagar College of Engineering.*
9. *International conference on Indo-UK International Virtual Conference on "Advanced Nanomaterials for Energy and Environmental Applications" on 16<sup>th</sup> -18<sup>th</sup> September, 2020, at Alagappa University.*
10. *National Conference on "Emerging Materials and Nanotechnology" on 28<sup>th</sup> to 29<sup>th</sup> Feb 2020, at Thiruvalluvar Government Arts College, Rasipuram.*
11. *International Virtual conference on "Chemical Research for Sustainable Development, on 24<sup>th</sup> to 25<sup>th</sup> Sep 2021 at SRM Institute of Science and Technology, Chennai.*

**Workshops:**

1. *Workshop on Industry-Institution Interaction Event on Environment Management in Industrial sector-Status and Needs on 24-25<sup>th</sup> July 2015.*
2. *National seminar on "Environmental issues and sustainable development" on 11<sup>th</sup> and 12<sup>th</sup> Nov 2013 at Sri Sairam Engineering College.*

3. *Workshop on “Art of Journal and Thesis writing” on 19<sup>th</sup> Jan 2012 at Sri Sairam Engineering College.*
4. *Workshop on “Recent trends in Analytical Instrumentation” on 12<sup>th</sup> April 2005 at S.R.M. Engineering College, Kattankulathur.*
5. *Online Workshop on Inculcating Universal Human Values in Technical Education. AICTE, 12<sup>th</sup> to 16<sup>th</sup> October 2020.*
6. *DST-FIST Sponsored Virtual Worksop on “Scanning Electron Microscopy” on 5<sup>th</sup> to 6<sup>th</sup> October 2021 at Sethu Institute of Technology.*
7. *Webinar on “Raman Spectroscopy and its Applications in Materials Science”, on 28<sup>th</sup> January 2022.*
8. *Workshop on “Sustainable Materials Advances and Applications”, on 22<sup>nd</sup> July 2022 at SRM Institute of Science and Technology.*
9. *National seminar on “NEP 2020 Implementation using Change Management Concepts in Higher Educational Institutes”, on 21<sup>st</sup> April 2022 at Sri Sairam Engineering College*
10. *National level workshop on, An Over view of Patents & Procedure for Protection” on 20<sup>th</sup> January 2023 at Ramco Institute of Technology.*

### **FDP:**

1. *Faculty development programe on “Characterization of Materials on 20th and 21st July 2017 at Sri Sairam Institute of Technology*
2. *Faculty development programe on “Engineering Teaching Pedagogy and Effective Learning Process”, 3-7<sup>th</sup> 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 24.6.19 to 29.6.19.*
4. *Attened the MHRD sponsored MHRD FDP on “Recent innovation in Electrical, Electronics, Instrumentation, Automation and Teaching Pedagogy at Sri Sairam Engineering College from 18.05.2020 to 30.05.2020.*
5. *Attened 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 18<sup>th</sup> to 30<sup>th</sup> May 2020, By Sri Sairam Engineering College.*
7. *Attended the International FDP programme on EDUCATION 4.o The Future Ahead, 10<sup>th</sup> to 14<sup>th</sup> August 2020. By Sri Sairam College of Engineering, Bengaluru.*
8. *Attended the Human Values, Ethics, Morals, Behavioural Science and Attitude by AICTE 10<sup>th</sup> to 15<sup>th</sup> Sep 2020, KIIT college of Engineering Gurugram.*

9. Attended the Five Days International Faculty Development Program on “Nanomaterials”, on 23<sup>rd</sup> to 27<sup>th</sup> November 2021 at St. Mary’s College.
10. Attended the Face-face UHB=II FDP, organized by AICTE at Sri Sairam Engineering College, Chennai, 26<sup>th</sup> to 30<sup>th</sup> July, 2022.
11. Two Days Online Faculty Development Program on Condensed Matter Physics” on 24<sup>th</sup> and 25<sup>th</sup> January 2022 at Jamal Mohamed College
12. Five Days International Faculty Development Program on (FDP-2.0) “Recent Research in Material Physics & Nano Devices”, by IQAC, 21<sup>st</sup> to 25<sup>th</sup> November 2022 at Rajas College.
13. Online Five Days Faculty Development Program on, “Insights on Emerging Research in Chemical Science (IERCS-2022)”, 10-14 October 2022 at National Institute of Technology, Andra Pradesh

### **ON - LINE COURSES**

1. Completed one online course (NPTEL) of eight weeks with elite category along with FDP.
2. Udemy : Complete General Chemistry, 10<sup>th</sup> July 2020-08-14
3. Simpli Learn: Introduction to IOT, 05<sup>th</sup> April 2020
4. Simpli Learn: Introduction to Cybersecurity, 07<sup>th</sup> April 2020
5. Coursera: Introduction to Psychology, 19<sup>th</sup> May 2020
6. Coursera: Gmail.The foundation to Assessing Google Apps, 19<sup>th</sup> May 2020
7. Coursera: Spread sheet for Beginners using Google Sheet, 19<sup>th</sup> May 2020
8. Coursera: Create Informative Presentation with Google Slides, 19<sup>th</sup> May 2020
9. Corsera: The Sustainable Development Goals-A global, transdisciplinary vision for the future, 19<sup>th</sup> June2020.
10. Corsera : Grow to Greatness: Smart Growth for private Bussiness Part I, 19<sup>th</sup> June2020
11. Corsera : Grow to Greatness: Smart Growth for private Bussiness Part II, 19<sup>th</sup> June2020
12. Corsera :The Holocaust- An Introduction(1): Nazi Germany: Ideology, The Jews and the world, 19<sup>th</sup> June2020
13. Corsera : Ecology: from cells to Gaia, 19<sup>th</sup> June2020
14. Corsera : Beyond the Sustainable Development Goals: Addressing Sustainability and Development, 18<sup>th</sup> June2020
15. Corsera: Social Psychology, 09<sup>th</sup> June 2020.

16. *Online Webinar on "Recent trend in Covid-19, Diagnosis and Management" , VISTAS, 3<sup>rd</sup> June 2020.*
17. *Webinar Series on "Research ", VISTAS, 22<sup>nd</sup> June to 24<sup>th</sup> June 2020.*
18. *National level webinar on " Watershed Prioritization", VMRF, on 30th May 2020*
19. *International level webinar on "Influence of Electromagnetic Theory in 5G Applications", Sri Sairam Engineering College, October 31, 2020.*
20. *Online webinar on "Recent trends in covid-19, Diagnosis and Management", VISTAS, 3<sup>rd</sup> June 2020.*
21. *National level webinar on "Environment and Cancer", Arasu Engineering College, Kumbakonam, 3 rd Feb 2021.*
22. *International Webinar on "Natural Products and Drug Development", on 4 th to 6 th October 2021 at Crescent Institute of Science and Technology, Chennai.*
23. *Webinar on "Magnetic Nanocarriers for Enhanced Enzyme Activity" 30th May 2020 at Prathyusha College of Engineering, Chennai.*
24. *Completed one NITTTR course (Module3: Communication Skills, Modes and Knowledge Dissemination), September 2021.*
25. *International Webinar on "Surface Chemistry and Catalysis", on 16<sup>th</sup> December 2021.*
26. *Webinar on "Raman Spectroscopy and its Applications in Materials Science", on 28<sup>th</sup> January 2022.*
27. *Completed one NITTTR course (Module1: Orentation towards Technical Education and Curriculam Aspects, June 2022.*
28. *Completed one NITTTR course (Module 4 Instructional Planning and delivery of National Initiative for Technical Teachers Training), June 2022.*

## **OTHERS**

- *Certified internal auditor of ISO 9001:2015 Quality Management System and Audit Training.*
- *Life Member of the "Indian Society for Technical Education" LM127900*
- *Life Member of IEEE*



