

# Sri Sai Ram Engineering College

## Department Of Humanities And Sciences

<b>Name : Dr. T. Vennila</b>	
<i>Designation :</i>	<i>Associate Professor</i>
<i>Qualification :</i>	<i>M.Sc., B.Ed., M.Phil., Ph.D.</i>
<i>Area of Specialisation</i>	<i>Chemistry</i>
<i>Experience :</i>	<i>Teaching : UG :8</i> <i>PG : Nil</i> <i>Industry : 2yrs 8 months</i>
<i>No. of Workshop / Conferences / FDP attended</i>	<i>10</i>
<i>Publication :</i>	<i>Journal:</i> <i>National : nil</i> <i>International : 10</i>
	<i>Conference</i> <i>National : 4</i> <i>International : 1</i>
<i>Research Guidance :</i>	<i>Nil</i>
<i>General :</i>	<i>Nil</i>

<i>Staff Achievements</i>	<i>Produced 100% result in JJ Engg. College. Trichy.2019 .As a ladder started with Tagore college of arts&amp;science finally cemented at Sri sairam Engineering college where i keep producing centum results.</i>  <i>STARTED WORK COLLABORATION WITH UNIV OF CHILE SANTIAGO, CHILE.</i>
---------------------------	--

**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>Chemistry</i>	<i>2000</i>	<i>P.S.G.R.K. College for Women</i>	<i>Bharathiar</i>	<i>72%</i>	<i>First class</i>
<i>PG</i>	<i>M.Sc.,</i>	<i>Chemistry</i>	<i>2002</i>	<i>P.S.G.R.K. College for Women</i>	<i>Bharathiar</i>	<i>70.02%</i>	<i>First class</i>
	<i>M.Phil</i>	<i>Chemistry</i>	<i>2005</i>		<i>Bharthidasan</i>	<i>82%</i>	<i>First class with distinction</i>
	<i>Ph.D</i>	<i>Chemistry</i>	<i>2018</i>		<i>Mother Teresa Women's University</i>		

### **Academic Experience**

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
<i>J.J. College of Engineering Trichy</i>	<i>Lecturer</i>	<i>02.07.2007</i>	<i>Feb 2008</i>	-	8	-
<i>Tagore College of Arts &amp; Sciences</i>	<i>Lecturer</i>	<i>01.08.2012</i>	<i>30.03.2014</i>	1	8	-
<i>Sri Sai ram Engineering College</i>	<i>Assistant Professor</i>	<i>16.06.2014</i>	<i>31.08.2022</i>	9	2	-
<i>Sri Sai ram Engineering College</i>	<i>Associate Professor</i>	<i>01.09.2022</i>	<i>Till date</i>		5	-
<b>Total</b>				<b>11</b>	<b>11</b>	<b>0</b>

### Industrial Experience

Name of the Organisation	Designation	Nature of Work	Joining Date	Relieving Date	Experience		
					Years	Months	Days
<i>M.M.FORGINGS. LTD - PADAPAI</i>	<i>Instructor</i>	<i>Teaching</i>	<i>01.03.2008</i>	<i>30.12.2010</i>	2	8	
<i>Total</i>					2	8	

## **PUBLICATIONS**

### **Journals:**

1. Muneeswaran T, Maruthupandy M, Mary A.S, Vennila T, Kaushik R, Ramakritinan C.M, Frank Q. Starch-mediated synthesis of chitosan/silver nanocomposites for antibacterial, antibiofilm and wound healing applications. *Journal of Drug Delivery Science and Technology (Under Review)*.
2. Maruthupandy M, Muneeswaran T, Chackaravarthi G, Vennila T, Anand M, Cho WS, and Quero F. Development of hexagonal ZnO nanodisks for potential catalytic reduction of p-nitrophenol. *Materials Chemistry and Physics*, 2022, 285, 126145.
3. Maruthupandy M, Muneeswaran T, Vennila T, Anand M, Cho WS and Quero F. Photocatalytic efficiency of graphene/nickel oxide nanocomposites towards the degradation of anionic and cationic dye molecules under visible light. *Journal of Photochemistry and Photobiology A: Chemistry*. 2022, 427, 113819.
4. Maruthupandy M, Muneeswaran T, Chackaravarthi G, Vennila, T, Anand, M, Cho W. S, and Quero F. Synthesis of chitosan/SnO<sub>2</sub> nanocomposites by chemical precipitation for enhanced visible light photocatalytic degradation efficiency of congo red and rhodamine-B dye molecules. *Journal of Photochemistry and Photobiology A: Chemistry*. 2022, 430, 113972.
5. Maruthupandy M, Muneeswaran T, Vennila T, Anand M, Cho WS and Quero F. Development of chitosan decorated Fe<sub>3</sub>O<sub>4</sub> nanospheres for potential enhancement of photocatalytic degradation of Congo red dye molecules. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. 2021 Oct 16:120511.
6. Vennila T, Surakasi R, Raghuram KS, Ravi G, Madhavarao S, Udagani C, Sudhakar

*M. Investigation on tensile behaviour of Al/Si<sub>3</sub>N<sub>4</sub>/sugarcane ash particles reinforced*

*FSP composites. Materials Today: Proceedings. 2022, 59:1266-70.*

*7. Muneeswaran T, Kalyanaraman N, Vennila T, Rajesh Kannan M and Ramakritinan*

*C.M. Rapid assessment of heavy metal toxicity using bioluminescent bacteria Photobacterium leiognathi strain GoMGm1, Environmental Monitoring and Assessment. 2021, 193(3), 1-18.*

*8. Sathyavathi S, Manjula A, Kumaravel V, Muneeswaran T, Vennila T. Biosorption of*

*nickel ions using fungal biomass Penicillium sp. MRF1 for the treatment of nickel electroplating industrial effluent, Biomass Conversion and Biorefinery. 2020, 1-10.*

*9. Vennila T, Muneeswaran T, Manjula M, Stalin B and Vairamuthu J. Synergism between Sodium Molybdate and Binary Inhibitor (BHI+Zn<sup>2+</sup>) on corrosion inhibition*

*of Mild steel in Aqueous Medium containing 60 ppm Cl<sup>-</sup> ion, Materials Research Express. 2019, 2, (1165g6)*

*10. Maruthupandy M, Rajivgandhi G, Muneeswaran T, Vennila T, Quero F and Ji-Ming*

*Song. Chitosan/silver nanocomposites (CS/Ag NCs) for colorimetric detection of glucose molecule, International Journal of Biological Macromolecules. 2019, 121, 822-828.*

*11. Vennila T. Biocidal Efficiency of Surfactants-CTAB and SDS on the Corrosion Inhibition Performance of Binary Inhibitor (BHI-Zn<sup>2+</sup>) System on Mild Steel in Aqueous Medium, Kaav International Journal of Science, Engineering & Technology. 2017, 4(1), 21-38.*

*12. Vennila T, and Manjula P. Corrosion inhibition, Adsorption Behaviour and Thermokinetic Characteristics of 1-Benzyl-3-Hydroxy-1-H-Indazole on Mildsteel in Neutral Medium, International Journal of Innovative Research in Science, Engineering and Technology. 2016, 6(6), 9407-9416.*

*13. Vennila T, and Manjula P. Synergistic Influence of Sodium Meta Vanadate on*

*Corrosion Inhibition Efficiency of 1-Benzyl-3-Hydroxy-1-H-Indazole on Mild Steel in Aqueous Medium Containing 60ppm Cl<sup>-</sup> ion, International Journal of ChemTech Research. 2016 9(7), 205-214.*

14. Manonmani K, Manjula P, and Vennila T. *Anti-Corrosion Ability and Biocidal Efficiency of Surfactants on Mild Steel in Aqueous Environment, IRA-International Journal of Technology & Engineering (ISSN 2455-4480). 2016, 3(3), 110-126.*

15. Gowrani T, Manjula P, Nirmala Baby C.M, Sudha K.N, and Vennila R. *Thermodynamical Analysis of MBTA on the Corrosion Inhibition of Brass In 3% NaCl Medium., International Journal of Nano Corrosion Science and Engineering. 2015, 2(1), 12-21.*

16. Kiruthika M, Elayaperumal, R, and Vennila T. *Synthesis, Characterisation and DNA Interaction of a Mixed Ligand Ruthenium (II) Complex, International Journal of Chem Tech Research. 2013, 5(4), 1839-1846.*

17. Mathiyalagan K, Gopal S, Ramasamy E, and Vennila T. *In-vitro antimicrobial screening of ferrocene derived compounds, International Journal of ChemTech Research. 2012, 4(4), 1775-.1781.*

18. Kiruthika M, Elayaperumal R, and Vennila T. *Synthesis and antifungal potential of a ruthenium (II) complex. Der Chemica Sinica. 2012, 3(5), 1175-1180.*

19. Kiruthika M, Elayaperumal R, Vennila T, and Dharmalingam P. *Synthesis, Characterisation and Biological Studies of a Mixed Ligand Ruthenium (II) Complex, Journal of Pharmacy Research. 2012, 5(9), 4849-4852.*

## **Professional recognition/Award/Prize/Certificate, Fellowship**

1. **Professional Development programme on "Communication Skills for Technical Teachers and Entrepreneurs" during 09.05.2022 - 13.05.2022, National Institute of Technical Teachers Training and Research, Chennai.**

2. **Professional Development programme on “Academic Leadership and Motivation”** during 13.06.2022 - 17.06.2022, National Institute of Technical Teachers Training and Research, Chennai.

3. **Best Faculty Award** during the year 2021-2022 from **Novel Research Academy, Puducherry, India.**

4. **Best Award of Excellence in Research** during the year 2021-2022 from **Novel Research Academy, Puducherry, India.**

## **Conferences:**

### **International:**

- *International corrosion prevention symposium for research scholars Presented paper on “Thermodynamical analysis of corrosion inhibition of ATMP-Cd<sup>2+</sup> system on mild steel in aqueous medium” on July 31<sup>st</sup> and August 1, 2015.*

### **National:**

- *Electrochemical investigation on the corrosion inhibition of mild steel by sodium metavanadate in aqueous media containing 60 ppm Cl<sup>-</sup> ions in NCEA-2018 at Valliammai Engineering College (SRM Group of Institution).*
- *Participated in National conference on “Current Trends in Energy Conversion Devices & Environment”, 22<sup>nd</sup> and 23<sup>rd</sup> February – 2019, organized by P.G. Department of Chemistry, Selvam Arts and Science College, Namakkal– 637 003.*
- *Presented paper titled “Synergistic effect of SMV of corrosion on mild steel” corrosion in National conference, March<sup>2nd</sup>-2020 “ENVIRONMENTAL SUSTAINABILITY HEALTH AND POLLUTION ABATEMENT” in M.S.S WAKF BOARD COLLEGE, Madurai*

## **Workshops:**

1. *Research methodology for Ph.D Scholars held for two days (2016)*



2. *National level workshop on “ADVANCEMENTS IN CHEMICAL SCIENCES” at SIT college Chennai.(2016)*
3. *Training course on “CORROSION PREVENTION AND CONTROL” at IIT Madras, Chennai. (2014)*
4. *Workshop on “PROMOTION OF RESEARCH AND FACULTY DEVELOPMENT IN TECHNICAL INSTITUTIONS”. (2008).*
5. *Workshop on Hands -on CALIBRATION WORKSHOP ON ESA&ESU G.K.M College. (7/9/2019).Executed by HELIX.*
6. *Online workshop on Recent Advance in Science and Technology of Concrete organized by IIT MADRAS Chennai India. Saturday 2nd 2020*

### **FDP:**

- *Course on “Infra Red Spectroscopy for Pollution Monitoring” during August to September, 2019 conducted by NPTEL–AICTE Faculty Development Programme.*
- *Working Culture for Professionals by ISTE Sri Sairam Engineering College 11.11.2019 to 16.11.2019*
- *AFM & FTIR Based Material Testing for Research Aarupadai Veedu Institute of Technology 17.12.19 to 18.12.19*
- *AICTE recognised FDP on **IOT by CS &Engineering dept** from 10/04/2020 to 14/04/2020 (One Week)at NITTTR, Chandigarh*
- **National institute of technology -patna ORGANISED UHV VALUES FOR DEEKSHARAMBH(SIP) FROM 23-27NOV 2020(ATTENDED 5DAYS)**
- *AICTE recognised FDP on **Environment and Sustainable Development** from 18-05-20 to 22-05-20 (One Week) Organized by **Rural Development Department NITTTR, Chandigarh***
- *AICTE recognised FDP on **Recent Advances in Material Characterization** from 23/05/2020 to 28/05/2020 (One Week) Organized by **Mechanical Engineering Department NITTTR, Chandigarh***
- *3-Days Faculty Development Programme on “RESEARCH METHODOLOGY” through Webinar conducted by the PG & Research Department of Biotechnology, Bon Secours College for Women, Thanjavur from 29th April to 1 st May, 2020.*

- *Completed 10 days -Online FDP ON MARINE BIO & NANOTECHNOLOGY Organized by CENTRE FOR OCEAN RESEARCH ,DBT,SIST,ESTC&MINISTRY OF EARTH SCIENCE FROM December 1st to 10th 2021*
- *Completed 5days FACE TO FACE UHV II FDP ORGANISED BY AICTE FROM 26TH JULY TO 30TH JULY.*

### **Trainings:**

- *Internal auditor course on “ISO 9001: 2008 Quality Management System and Audit Training” on 1<sup>st</sup> October 2014 conducted by Creative Management Consultants, Chennai.*
- *Internal auditor course on “ISO 9001: 2015 Quality Management System and Audit Training” on 8<sup>th</sup> June 2018 conducted by Creative Management Consultants, Chennai.*

### **Book chapters: 1**

1. Vennila T, Jayaprakash, Raviteja S Rajkumar M. **“Wind Energy Conversion System”**

**2022.**

2. Muneeswaran T, Maruthupandy M, Vennila T and Franck Q. *Nano-Biomaterials for*

*Therapeutic and Diagnostic Applications in &quot;Applications of Multifunctional*

**Nanomaterials&quot;; Elsevier, 2020.**

3. Vennila T, Karuna MS, Srivastava BK, Venugopal J, Surakasi R, Sampath B. *New*

*Strategies in Treatment and Enzymatic Processes: Ethanol Production From Sugarcane Bagasse. in Human Agro-Energy Optimization for Business and Industry*

**2023 (pp. 219-240). IGI Global.**

### **PATENT DETAILS**

1. Patent design Number: 351819-001. Topic: **“Solar powered cold room” Award**

Date: 22.Oct.2021. Status: **GRANTED**

2. Patent Publication Number: IN-GJ16085289404063T. Topic: *“Smart Renewable*

*Electrical Vehicle” Award Date: 06.Sep.2021. Status: Published*

3. Patent Publication Number: IN-GJ16085289404063T. Topic: *“Novel Approach for*

*Investigation and Synthesis of Non-linear optical Crystal” Award Date:*

*06.Sep.2021. Status: Published.*

#### *REVIEWER&EDITOR IN JOURNAL*

1. *REVIEWER IN MATERIALS RESEARCH EXPRESS INDEXED WEB OF SCIENCE FROM 2019 TO TILL DATE*
2. *ASSOCIATE EDITOR OF INTERNATIONAL JOURNAL OF ADVANCE STUDIES AND GROWTH EVALUATION.*