


Sri Sai Ram Engineering College
Department Of Humanities And Sciences

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| <p>Name : Ms. M. VANITHA</p> |  |
| <p>Designation :</p> | <p>Associate Professor</p> |
| <p>Qualification :</p> | <p>M.Sc., M.Phil., (Ph.D)</p> |
| <p>Area of Specialisation</p> | <p>General Chemistry</p> |
| <p>Experience :</p> | <p>Teaching : UG : 17 yrs 06 Month PG : Nil Industry : Nil</p> |
| <p>No. of Workshop / Conferences / FDP attended</p> | <p>17/6/18</p> |
| <p>Publication :</p> | <p>Journal National : Nil International : 12</p> |
| <p></p> | <p>Conference National : 03 International : 03</p> |
| <p>Research Guidance :</p> | <p>Nil</p> |
| <p>General :</p> | <p>Always motivate the students towards the excellence.</p> <ul style="list-style-type: none"> ● Department NAAC Coordinator. ● NSS Programme officer. ● Member of ISO Committees. ● Certified internal auditor of ISO:9001:2008 and ISO: 9001:2015 for Quality management system and Audit training. |

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| Staff Achievements : | <ul style="list-style-type: none"> Produced 100% result in Environmental Science & Engineering. Produced 100% result in Engineering Chemistry I & II. Produced 100% result in Principles of food preservation |
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Educational Qualification:

| 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. | Chemistry | 2003 | Kundavi Nachiar Govt. Arts. & Science College | Bharathidasan University | 82% | Ist with Distinction |
| PG | M.Sc. | Chemistry | 2005 | Raja Govt. Arts College | Bharathidasan University | 79% | I |
| | M.Phil. | Chemistry | 2008 | Bharathidasan University | Bharathidasan University | 81% | Ist with Distinction |
| | (Ph.D) | Chemistry | | Dr. Ambedkar Govt. Arts College | Madras University | Pursuing | |

Academic Experience

| Name of the College | Designation | Joining Date | Relieving Date | Experience | | |
|--|---------------------|--------------|----------------|------------|--------|------|
| | | | | Years | Months | Days |
| GKM College of Engineering & Technology | Lecturer | 16.08.2005 | 03.01.2007 | 1 | 4 | 18 |
| Karpaga Vinayaka College of Engineering & Technology | Lecturer | 18.01.2007 | 17.06.2008 | 1 | 5 | - |
| Sri Sai Ram Engineering College | Assistant Professor | 18.06.2008 | 31.08.2022 | 14 | 03 | - |
| Sri Sai Ram Engineering College | Associate Professor | 01.09.2022 | Till date | 0 | 06 | - |

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| Total | 17 | 06 | 18 |
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PUBLICATIONS

Journal:

- **M. Vanitha**, G Ramachandran Green Synthesis and Characterization Studies of Calcium Doped Nickel Ferrite Nanoparticles by Microwave Combustion Method. International journal of Food and Nutritional Sciences, vol: 11, Dec 2022.
- **M. Vanitha**, G Shanmugasundar, G Sai Krishnan, S Srinivasan .Investigation on the mechanical properties of newly modified polymeric fiber for structural applications Vol:46,2021.
- **M. Vanitha**, G Sai Krishnan, G Shanmugasundar, Raghuram Pradhan, SP Sundar Singh Sivam .Performance analysis on mechanical/morphological properties of ramie-kenaf hybrid polymer composites. AIP Conference Proceedings. Vol:2417,2021.
- **M. Vanitha**, Raghuram Pradhan, G Shanmugasundar, G Sai Krishnan, SP Sundar Singh Sivam A critical investigation on the performance of bael biodiesel in CI engine . AIP Conference Proceedings .Vol:2417,2021.
- **M. Vanitha**, G Shanmugasundar, Robert Čep, Vikas Kumar, Kanak Kalita, M Ramachandran .A Comparative Study of Linear, Random Forest and AdaBoost Regressions for Modeling Non-Traditional Machining. Vol:9.2021
- **M. Vanitha**, G Ramachandran, A Manikandan, Y Slimani, MA Almessiere, A Baykal, Chandra Sekhar Dash Effect of Sr²⁺ Ion-Substituted Nickel Ferrite Nanoparticles Prepared by a Simple Microwave Combustion Method / Journal of Superconductivity and Novel Magnetism Volume 34.2021.
- **M. Vanitha**, G Sai Krishnan, J Pravin Kumar, G Shanmugasundar, N Sivashanmugam Investigation on the alkali treatment of Demostachya Bipinnata fibers for automobile applications-A green Composite, Materials Today: Proceedings. Vol: 2214-7853 ,June - 2020
- **M. Vanitha**, G Sai Krishnan, G Shanmugasundar, S Srinivasan, G Suresh Investigation on the Mechanical & Morphological Properties of Red banana/Ramie Fiber vinyl ester Composites, Material Science and Engineering. Vol:961, Nov 2020.

- **M .Vanitha**, G Shanmugasundar, L Ganesh Babu, P Suresh, P Mathiyalagan, G Sai Krishnan, Fabrication & analysis of Mechanical Properties of PVC/Glass fiber /graphene nano composite pipes, Materials Research Express. Volume 7, Number 11, November 2020.
- **M .Vanitha**, G Sai Krishnan, G Shanmugasundar, N Sivashanmugam Mechanical Properties of Chemically Treated banana & Ramie Fibre Reinforced Polypropylene Composites / IOP Publications, Material Science and Engineering. Vol:961, Nov 2020
- **M.Vanitha** and G.Saikrishna, S.Aravinth Investigation of Al₂O₃/Oryza Sativa Oil Biodiesel on Performance and Tribological Characteristics. Test Engineering and Management. Volume 83 ISSN: 0193-4120 Page No. 942 – 946 May-June 2020
- **M. Vanitha** and G. Ramachandran Effects of Ni²⁺ ions on structural, morphological and magnetic properties of Ni_xCo_{1-x}Fe₂O₄ (X=0.0, 0.3 and 0.5) nanoparticles. **International journal** of Green and Herbal Chemistry. Vol.8, No.2, pp 539-548 on May 2019. (E-ISSN: 2278-3229)

Conferences:

- Presented paper on “**International conference on solar & Biomass energy**” Conducted by department of mechanical engineering at GKM College of engineering & technology, Chennai on 7th & 8th Jan 2014. Title of the paper: “**Management of High level radioactive wastes at Nuclear power plants**”
- Participated National Conference on “**Recent Development of Chemistry in Engineering Applications**” conducted by department of Chemistry at SRM Valliammai Engineering College, Kattankulathur on 09th Feb 2019.
- Participated National Conference on “**Current Trends in Energy Conversion Devices & Environment**” conducted by department of Chemistry at Selvam Arts & Science College, Namakkal on 22nd & 23rd Feb 2019.
- Participated International Conference on **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

- Participated International conference on **Nanoscience and Nano technology** at **Bharath institute of Science and technology** .05.02.2021 & 06.02.2021
- Participated in the National Conference on Recent Innovations in Mechanical Engineering and presented paper on **Investigation of Ni²⁺ ions on structural, morphological and magnetic properties of Ni_xCo_{1-x}Fe₂O₄ nanoparticles** organized by Jai Shriram Engineering College on 18.11.2021 at Tirupur-638660.

Patents:

1. Patent Published on 6.01.2023, **BRAIN COMPUTER INTERFACED (BCI) SYSTEM FOR NON-TOUCH REMOTE CONTROLLING OF THE HOUSEHOLD ELECTRICAL DEVICES PROVIDING HOME AUTOMATION.**

2. Patent Published on 6.01.2023, **BRAIN COMPUTER INTERFACED (BCI) SYSTEM FOR NON-TOUCH REMOTE CONTROLLING OF THE NAVIGATIONAL DEVICE TO ASSIST THE PHYSICALLY CHALLENGED USERS .**

Workshops:

1. Participated in three days virtual International webinar on **natural products and Drug development(NPDD2021)** organised by Department of Chemistry, B.S.Abdur Rahman Crescent Institute of Science and technology, Vandalur, Chennai during 4.10.21-06.10.21.
2. Participated in the international Virtual Seminar on **Advances in Chemical Sciences** on organized by PG & Research Department of Chemistry, Vivekanandha College of Arts and Sciences for Women (Autonomous), Elayampalayam, Tiruchengode on 08.03.2021.

3. Attended online International webinar on “**Potential Role of Probiotics & Prebiotics**” at **Seethalakshmi Ramaswami College** on 23.06.2020
4. Attended Leadership talk by MHRD’ Innovation cell (Government of India) on 18.06.2020.
5. Attended online webinar on “**Biodiversity Its Time for Nature**” at **Sri Sairam Institute of Technology**, Chennai on 05.06.2020
6. Attended online webinar on “**Opportunities for Research with DRDO**” at **A.V.C. College of Engineering**, Mayiladuthurai on 29.05.2020
7. Attended online webinar on “**Intelligent Systems**” at Mohamed Sathak Engineering College, Ramanathapuram on 28.05.2020
8. Attended online webinar on “**Introduction to Industry 5.0**” at St. Joseph’s College of Engineering , Chennai on 28.05.2020
9. Attended online international webinar on “**Covid -19 Awareness Program**” at Thiagarajar College of Engineering , Madurai on 04.04.2020
10. Attended online webinar on “**IPR & Patent Practices in India-Innovation & Research into Patents**” at Sri Sairam Institute of Technology, Chennai on 11.05.2020
11. Attended online webinar on “**3D Printing Applications in Fighting with Covid-19**” at Sri Sairam Institute of Technology, Chennai on 09.05.2020
12. Attended online webinar on “**How to get Published in Scientific Journal From Research to Publication**” at Sri Sairam Institute of Technology, Chennai on 27.04.2020
13. Attended online international webinar on “**Metal Free Photocatalysts for Environment Enhancing**” at Thiagarajar College of Engineering, Madurai on 27.05.2020
14. Attended “Two Days National Workshop on Hands on Training on **Composite Preform Formation Techniques and their Characterization for General Engineering, Armour and Aerospace Applications**” at St.Peter’s College of Engineering and Technology, Chennai on 30 and 31st Aug 2019.
15. Attended National level workshop on “**Advancements in Chemical sciences** on 18th July 2016 at Sri Sairam Institute of Technology.
16. Attended Recent Trends in **Laser Spectroscopy and its Applications (RTILSA -13)** on 17.10.2013 at Sri Sairam Engineering College.
17. Attended the AICTE sponsored staff development program on “**Recent Developments in Computing**” conducted by department of computer science & engineering at Sri Sai Ram Engineering College on April 2010.

FDP:

1. Attended **International FDP on Nanomaterials** at **St.Mary's College**(Autonomous) Thoothukudi from 23.11.2021 to 27.11.2021.
2. Attended FDP on "Innovation,Incubation,startsup and Research challenges in India" at **SRM Institute of Science and technology** 28.06.2021 to 02.07.2021
3. Attended FDP on "Recent Developments in materials,manufacturing and thermal Applications" at **Karpagam Academy of higher education**,Coimbatore from 07.06.2021 to 12.06.2021.
4. Attended Five days FDP on Inculcating Universal human values in Technical Education online program from 19.04.2021 to 23.04.2021.
5. Attended STTP "Strategies in Teaching learning" at **Sri Sairam Institute of Technology** from 25.02.2021to 03.03.2021.
6. Attended Five days FDP on "Manufacturing, Machining and Testing of Composites" at **Sri Sairam Institute of technology**, Chennai from 15.05.2020 to 19.06.2020.
7. Attended **AICTE Training & Learning (ATAL) Academy** FDP on "**Robotics**" from 25.05.2020-29.05.2020 at Maulana Azad National Institute of Technology Bhopal MP.
8. Attended ISTE sponsored Five days Short Term Training Programme on "**Intelligent Robotics & Machine Vision Technology IN Current Scenario**" at **Sri Sairam Institute of Technology, Chennai** from 13.05.2020 - 18.05.2020.
9. Attended Five days FDP on "Novel Materials and Industrial Applications" at **Karpagam College of Engineering, Coimbatore** from 25.05.2020 - 29.05.2020.
10. Attended the AICTE Recognized Faculty training programme on "**Nanomaterials and Devices**" at **NITTR, Chandigarh** from 27.4.2020 to 01.05.2020.
11. Attended Five days FDP on "Materials for Thermal and Renewable Energy Research" **Sri Sairam Institute of technology**, Chennai from 20th may & 24th May 2020.
12. Attended Two days FDP on "**AFM AND FTIR BASED MATERIAL TESTING FOR RESEARCH**" at **Aarupadai Veedu Institute of technology**, Chennai from 17th July & 18th Dec 2019.
13. Attended Three days Sponsored FDP on "**Teaching Techniques with Gamification**" Conducted by ICT Academy on 11.12.2019 to 13.12.2019 at Dhaanish Ahmed College of Engineering.
14. Attended the ISTE sponsored FDP on "**RENEWABLE ENERGY SYSTEMS**" at Sri Sairam Engineering college, Chennai from 22nd July to 26rd July 2019.
15. 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.
16. Participated in Two days Faculty development programme on "**Recent developments in Engineering Materials & Nanotechnology**" held on 10th & 11th December2018 at Tagore Engineering College, Department of Mechanical Engineering, Rathinamangalam,

Chennai-127.

17. Attended FDP on “**CHARACTERIZATION OF MATERIALS**” at Sri Sairam Institute of Technology, Chennai on 20th & 21st July 2017.
18. Attended the Anna university Sponsored faculty development program on “**CY2161-Engineering Chemistry – II**” at Madras institute of technology Chennai on 26th Dec to 2nd Jan 2012.

Online course:

- Successfully completed NPTEL course with Elite on the topic **introduction to research**.
- Successfully completed NPTEL course with Elite on the topic **Infra Red Spectroscopy for Pollution Monitoring**.
- Successfully completed NPTEL course with Elite with Silver on the topic **plastic waste management**.
- Successfully completed NPTEL course with Elite on the topic **Dairy and food process and products Technology**.
- Successfully completed **Artificial Intelligence & Drug Discovery** Course on 22.04.2020.
- Successfully completed **General Chemistry** online Udemy Course on 09.04.2020
- Successfully completed online training Program **Introduction to IOT** on 20.04.2020
- Successfully completed **Spreadsheets for Beginners using Google Sheets** Coursera online Course on 09.5.2020
- Successfully completed **Quantum Mechanics** Coursera online Course on 18.5.2020
- Successfully completed **Introduction to Google Docs** Coursera online Course on 10.6.2020
- Successfully completed **Air Pollution – A Global Threat to our Health** Coursera online Course on 10.6.2020
- Successfully completed **Natural Gas** Coursera online Course on 10.6.2020

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