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| Name: Ms. T. AMIRTHAVARSHINI | Photo  | | | |
| Designation: | Assistant Professor | | | |
| Qualification: | M.Sc., M.Phil., B.Ed.,(Ph.D) | | | |
| Area of specialization: | GENERAL CHEMISTRY | | | |
| Experience: | Industrial Experience | | Teaching Experience | |
| | NIL | | 16 YEARS 6 MONTHS | |
| Number of workshops / FDP attended: | Number of Workshops | | Number of FDPs | |
| | 10 | | 22 | |
| Publications: | Conference | | Journal | |
| | National | International | National | International |
| | 4 | 2 | 2 | 2 |
| Books / Book Chapters | | | | |
| Patents: | National | | International | |
| | 2 | | | |
| Professional Body Membership | ISTE member IEEE (2022) | | | |
| Staff Achievements | <ul style="list-style-type: none">Achieved 100% results in Engineering Chemistry – I, Engineering Chemistry – II, Engineering Chemistry & Environmental Science and Engineering many times | | | |

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. | Chemistry | 2003 | Sri Sarada College | Periyar University | 80% | I with distinction |
| PG | M.Sc. | Chemistry | 2005 | Sri Sarada College | Periyar University | 73% | I |
| | M.Phil. | Chemistry | 2008 | Periyar University | Periyar University | 72% | I |
| | Ph.D | Chemistry | | Valliammai Engineering college | Anna University | Pursuing | |

Academic Experience:

| Name of the College | Designation | Joining Date | Relieving Date | Experience | | |
|--|---------------------|--------------|----------------|------------|--------|------|
| | | | | Years | Months | Days |
| Shanmuga Arts and Science college | Lecturer | 04.1.2008 | 25.6.2009 | 1 | 5 | 25 |
| Narasu's Sarathy Institute of Technology Salem | Lecturer | 02.07.2009 | 29.05.2012 | 2 | 11 | - |
| Sri Sai Ram Engineering College | Assistant Professor | 01.06.2012 | Till date | 12 | 06 | 0 |
| TOTAL | | | | 16 | 10 | 25 |

Workshops/Seminars attended:

1. One day workshop on **“Role of polymers in Modern Engineering materials”**, on 12th April 2013 at **Sri Sairam Institute of Technology**.
2. National level workshop on **“Advancements in Chemical Science”**, on 18th July 2016 at **Sri Sairam Institute of Technology**.
3. Knowledge Hub: Breaking of Stereotypes and Biases to promote Design Thinking Air Meet on 17.05.2020
4. Knowledge Hub - Best Practises for Online Mentoring Air Meet on 14.6.2020
5. Nano the tiny warrior Nanomedicine and drug delivery system, International Webinar conducted by Kongu Engineering College Perundurai on 30.05.2020

6. Guidelines for the management of health and hygiene in COVID 19 pandemic ,SRM Arts and Science College, Kattankalathur on 18.05.2020
7. Season 2, Leading in a VUCA world, ICT ACADEMY for five days
8. Season 3, The Future is here now, ICT ACADEMY on 05.06.2020
9. QoS in Layer 2 Sri Venkateswaraa College of Technology, Chennai on 01.05.2020
10. Super Session ICT ACADEMY 04.05.2020

FDP/STTP Attended:

1. ISTE sponsored FDP on “RENEWABLE ENERGY SYSTEMS” at Sri Sairam Engineering College, Chennai from 22nd July to 26nd July 2019.
2. ISTE sponsored FDTP on “WORK CULTURE FOR PROFESSIONALS” at Sri Sairam Engineering College, Chennai from 11th November to 16th November 2019.
3. **One week FDP on Recent Advances In Material Characterisation** conducted by GRIET, Hyderabad from 21.05.2020 to 27.05.2020
4. IGEN GREEN9 SDG CONCLAVE 2020, the Institution Green Engineers - Energy Efficiency Research Group Green9, 02.10.2020 & 03.10.2020.
5. Online Five Days Faculty Development Program on, “Advanced Materials for Energy Applications”, 9th to 13th October 2023 at Sathyabama Institute of Science and Technology.
6. Advanced Research Methodology for Social Science Research - sri sairam engg college, MBA dept 27.5.24 - 1.6.24
7. Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems -12 WEEKS-NPTEL- April 2024

Conference Attended:

1. National conference on "**Current trends in Energy Conservation Devices & Environment** "on 22nd and 23rd February 2019 in **Selvam College of Arts and Science, Namakkal**.
2. Presented a paper in the “**International Conference on Recent Advances in Applied Chemical Sciences-2019**” at Sree Sevugan Annamalai College on 6th September 2019
3. National virtual conference on “Intelligent Computing and Control for Engineering and Business Systems”. ICCEBS, IEEE, Nov 2023.

Completed / Ongoing Projects: NIL

Patent:

1. Patent Number: 202341069377, Topic: Eco friendly synthesis of noble metal nanoparticles using plant extracts, Published Date: 24.11.2023, Status: Published.
2. Patent Number: 202241026862, Topic: A process for producing chitosan inhibiting amyloid beta protein aggregation in neuro 2A cells , Published Date: 10.05.22, Status: Published.

Journal Publications:

1. A. Sankar, S. Valli Chitra, M. Jayashree, M. Parthibavarman,,T. Amirthavarshini, NiO nanoparticles/graphene nanocomposite as high-performance pseudocapacitor electrodes: design and implementation, Diamond related materials, volume 122

<https://doi.org/10.1016/j.diamond.2021.108804>

2. 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.
3. C.Selvakumar, V.T.Geetha, C.Govindaraju and **T.Amirthavarshini**, "Optical And Antioxidant Applications of Zinc Sulfide Doped Nano Biomateria",**Intelligent Computing and Control for Engineering and Business Systems**. ICCEBS, IEEE, 2023.
4. V.T.Geetha,C.Selvakumar,**T.Amirthavarshini** andC.Govindaraju "Investigations onStructural,Magnetic and Electrical Properties of Fe₃O₄ Nanoparticles". **Intelligent Computing and Control for Engineering and Business Systems**. ICCEBS, IEEE, 2023.

Books / Book Chapters:

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.

Awards: NIL

Startup: NIL

Webinar:

1. Knowledge Hub: Breaking of Stereotypes and Biases to promote Design Thinking Air Meet on 17.05.2020
2. Knowledge Hub - Best Practises for Online Mentoring Air Meet on 14.6.2020
3. Nano the tiny warrior Nanomedicine and drug delivery system, International Webinar conducted by Kongu Engineering College Perundurai on 30.05.2020
4. Guidelines for the management of health and hygiene in COVID 19 pandemic ,SRM Arts and Science College, Kattankalathur on 18.05.2020
5. Season 2, Leading in a VUCA world, ICT ACADEMY for five days
6. Season 3, The Future is here now, ICT ACADEMY on 05.06.2020
7. QoS in Layer 2 Sri Venkateswaraa College of Technology, Chennai on 01.05.2020
8. Super Session ICT ACADEMY 04.05.2020

Resource Person: Online Guest Lecture on Next Generation Battery Technology on 1.12.2023 conducted by

PAAVAI Engineering college.

Online Courses:

1. Successfully completed NPTEL course with Elite on the topic Water society and Sustainability.
2. **Elemental Arts: Evolution of Modern Periodic Table** in Sri Krishna College of Engineering and Technology, Coimbatore on 01.05.2020 & 02.05.2020
3. Air Pollution – a Global Threat to our Health **COURSERA 18.05.2020**
4. Create your first python programme **COURSERA 25.05.2020**
5. Speak English professionally: In Person ,online and on the phone **COURSERA 13.5.2020**
6. Completed Online course in NPTEL titled Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems.
7. Electronic waste management - issues and challenges – NPTEL – JAN-FEB 2021
8. Completed Online course in NPTEL titled Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems in 2024

Administrative Responsibilities

1. Contributing to Admissions in the Sairam institutions Admission core team for the past five years
2. Acted as cultural incharge for first years
3. Completed NITTTR seven modules.
4. Completed more than 22 online courses using NPTEL, Coursera and Udemey.
5. Four papers presented in national and international level conferences.
6. UHV co-ordinator and scope member and organized AICTE funded Uhv workshops in college three times.
7. Acted as observer and resource person in UHV workshops physically and acted as volunteer in online workshops