

# THE AGENDA



## Newsletter.....

FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES

(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS & HUMANITIES AND SOCIAL SCIENCES)

SRI VENKATESWARA COLLEGE OF ENGINEERING  
SRIPERUMBUDUR - 602117 TAMILNADU, INDIA

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# FACULTY ACHIEVEMENTS RECOGNIZED ON FACULTY RESEARCH DAY AT SVCE

## APPLIED CHEMISTRY

We are proud to announce that Dr. S. Stanly, Head of the Department of Applied Chemistry, along with Dr. T. Balusamy and Dr. S. Anandhavelu, Assistant Professors, have been recognized by the SVCE management for their outstanding research contributions. The trio was appreciated for having the highest h-index at the college level during the Faculty Research Day held on July 5, 2024.



## PUBLICATION IN SCI (Q1)

We are happy to inform you that we have published an original research article authored by Dr.S.Anandhavelu and Dr.S.Ananda Babu along with Dongguk University in South Korea.

Paper title: Chitosan-Integrated Curcumin-Graphene Oxide/ Copper Oxide Hybrid Nanocomposites for Antibacterial and Cytotoxicity Applications.

Authors: Anandhavelu Sanmugam, Logesh Kumar Sellappan, Abbashek Sridharan , Swathy Manoharan , Ananda Babu Sairam, Abdulrahman I. Almansour , Subha Veerasundaram , Hyun-Seok Kim and Dhanasekaran Vikraman

Journal name: Antibiotics , 2024, 13, 620.

Publisher: MDPI (SCI)

Impact Factor - 4.3.

Category : Q1

Paper Link:<https://www.mdpi.com/2079-6382/13/7/620>.

## RESEARCH DAY

The Department of Applied Chemistry recently held its annual Faculty Research Day on July 5th, 2024. This event provided a platform for faculty members and research scholars to showcase their work. Under the guidance of Dr. S. Stanly, Head of the Department, participants presented their research findings through paper presentations.

The event underscored the department's dedication to push the boundaries of scientific knowledge. It also fostered a stimulating environment for the exchange of innovative ideas among the academic community.

We congratulate the following faculty members for their outstanding contributions:

- First Prize: Dr. T. Balusamy, Assistant Professor
- Second Prize: Dr. M. Thirumalaikumar, Associate Professor



We are pleased to announce the recent research publications by our esteemed faculty and scholars:

1. Dr. R. Umadevi, Assistant Professor, and Ms. R. Sumathy, Full-time Research Scholar, have jointly published a research article titled "Irreversible and Reversible Chemical Reaction Impacts on Convective Maxwell Fluid over a Porous Media with Activation Energy" in the Anna University Annexure Journal Case Studies in Thermal Engineering with an impact factor of 6.4. DOI: <https://doi.org/10.1016/j.csite.2024.104821>

2. Dr. J. Vijayarangam and colleagues have published the following research articles:

- "Machine Learning-based Financial Analysis of Merger and Acquisitions" in the International Journal of Engineering Systems Modelling and Simulation, Vol. 15, No. 3, pp. 106-111, INDERSCIENCE.
- "Study of Health Status of Individuals using Machine Learning Models" in AIP Conference Proceedings, Vol. 2850, Issue 1, 030005 (2024).

3. Dr. R. Umadevi, Assistant Professor, and Mr. S. Prabhakar, Part-time Research Scholar, have published a research paper titled "Bioconvective Reversible (an Esterification Process) Casson Nanofluid Flow over a Radiative Spinning Disc with Microorganism" in the International Journal of Modern Physics C with an impact factor of 1.5. DOI: <https://doi.org/10.1142/S0129183124501717>

4. Dr. S. Selvakumar, Assistant Professor, has published a research article titled "Two-types of Service Facilities in Interconnected Stochastic Queueing and Queueing-Inventory System with Marked Markovian Arrival Process" in the Ain Shams Engineering Journal, Vol. 15, Issue 9. DOI: <https://doi.org/10.1016/j.asej.2024.102963>

## FACULTY ACHIEVEMENTS

1. Dr. B. Saravanan, Assistant Professor, attended:

- "Five Days Online International Workshop on Data Analytics using R.Studio" from 1st July 2024 to 5th July 2024, organized by Gomsguru Academy, Bangalore.
- Panel Discussion on "Innovation and Start-up Ecosystem" organized by the Institution Innovation Council (IC201810371 - IIC SVCE Chennai), Sri Venkateswara College of Engineering, Sriperumbudur, on 6th July 2024.
- Mentoring Session on "Angel Investment/VC Funding Opportunities for Early Stage Entrepreneurs" organized by the Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur), sponsored by the MoE Innovation Cell, AICTE, Government of India under the Mentor Mentee scheme on 22nd July 2024.

2. Dr. K. Vijayalakshmi & Dr. R. Umadevi, Assistant Professors, attended:

A two-week Short Term Training Program (STTP) on Research Writing, Funding Proposal Development, and Patent Drafting, jointly organized by Vidya Vihar Institute of Technology, Purnea, Bihar, and RSP Science Hub, Coimbatore, from 8th July 2024 to 20th July 2024.

3. Dr. K. Vijayalakshmi, Assistant Professor, attended:

"Unlocking the Power of Scopus Webinar 2: Effective Methods of Literature Review on Scopus (60 minutes)" organized by Elsevier on 18th July 2024.

4. Dr. A. R. Vijayalakshmi, Associate Professor, attended:

A five-day online workshop titled "Python in Data Science - A Hands-on Workshop on Pandas" from 22nd July 2024 to 26th July 2024, conducted by Webinar Park, Neural Oasis AI Studios LLP.

5. Dr. A. Subbu alias Suba, Assistant Professor, attended:

A two-week Faculty Development Program (FDP) on MATLAB for Engineers and Scientists: Bridging Theory and Application, jointly organized by ICFAI University, Jaipur, Moulay Ismail University, Morocco, Private University of Fez, Morocco, and Mathtech Thinking Foundation, India, from 18th July 2024 to 31st July 2024.

## FACULTY ACHIEVEMENT: APPLIED MATHEMATICS

Dr. V. Gayathri, Assistant Professor, has recently contributed to the academic community by reviewing cutting-edge research articles for reputed international journals. The articles reviewed include:

- "Optimization models for evaluating predictive ability of the general F-temperature index for the total pi-electron energy of polycyclic hydrocarbons with applicability to carbon nanocones" for Scientific Reports.
- "QSPR modelling of some COVID-19 drugs using neighbourhood eccentricity-based topological indices: a comparative analysis" for PLOS ONE.

These reviews underscore Dr. Gayathri's expertise and commitment to advancing research in the fields of nanoscience and pharmaceutical sciences.

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## THESIS DEFENDED

We are pleased to announce that Mr. R. Rajaraman, a part-time research scholar, successfully defended his thesis on "Numerical Solution of Radiation and Viscous Dissipation Effects on Flow Past an Oscillating Plate with Chemical Reaction" on July 9, 2024. The research was conducted under the esteemed guidance of Dr. R. Muthucumaraswamy. Congratulations to Mr. Rajaraman on this significant achievement!

Ms. G. Bharathy, Assistant Professor, Department of Applied Physics, has actively participated in several professional development events in July 2024:

- Gamification in Education: Attended on 6th July 2024, conducted by Educatalyst.
- Reskilling Training: Successfully completed on 29th July 2024.
- Mentoring Session on Lean Startup and Minimum Viable Product/Business: Organized by the Institution Innovation Council, Sri Venkateswara College of Engineering, Sriperumbudur on 20th July 2024.
- Expert Talk on Innovative Process Development, Technology Readiness Level (TRL); Commercialization of Lab Technologies & Tech-Transfer: Held on 13th July 2024, organized by the Institution Innovation Council, Sri Venkateswara College of Engineering, Sriperumbudur.

Additionally, other faculty members from the Department of Applied Physics also participated in key events:

- Webinar on Principles of Outcome-Based Education: Dr. S. Sampath Krishnan (Professor), Dr. T. Senthilnathan, Dr. M. Sukumar, and Dr. A. Saravanan (Assistant Professors) participated in this FDP on 30th July 2024, conducted by vmedulife software.
- MIC Driven Session on Strengthening IIC Linkages with ATLs and SICs in Schools and Framework for Providing Mentorship Guidance: Dr. A. Saravanan, Assistant Professor, participated in this session on 31st July 2024, organized by the Institution Innovation Council, Sri Venkateswara College of Engineering, Sriperumbudur.

# PUBLICATION ANNOUNCEMENT

We are pleased to announce that Dr. M. Sukumar, Assistant Professor in the Department of Applied Physics, has recently published a research paper titled "Monitoring the Effect of  $\text{In}^{3+}$  Doping on the Structural, Morphological, Optical, Vibrational, and Magnetic Properties of Perovskite  $\text{LaFeO}_3$  Nanoparticles" in the esteemed journal *Inorganic Chemistry Communications* (Volume 168, 2024, Article 112777).

## FACULTY RESEARCH DAY

The Department of Applied Physics recently hosted its annual Faculty Research Day on July 5th, 2024. Faculty members and research scholars under the guidance of Dr. N.R. Sheela, Head of the Department of Applied Physics, showcased their research through paper presentations. The event highlighted the department's commitment to advancing scientific knowledge and provided a platform for the exchange of innovative ideas.

The following individuals were recognized for their outstanding presentations:

- First Prize: Ms. J. Subha, Research Scholar
- Second Prize: Mr. K. Vijaya Narasimhana, Research Scholar
- Third Prize: Ms. G. Bharathy, Assistant Professor, Department of Applied Physics





Dr. N.R. Sheela, Associate Professor and Head, chaired a session at the 3rd International Conference on Sustainable Materials and Technologies for Bio and Energy Applications (SMTBEA-2024), held at SSN College from July 1st to 3rd, 2024.



### PROGRESS AND FEEDBACK EVALUATOR:

Dr. N.R. Sheela attended a progress and feedback session as an evaluator for the Institute M.A.M College of Engineering.

### INNOVATION AMBASSADOR TRAINING:

Dr. N.R. Sheela has successfully completed the "Advanced Level" Innovation Ambassador (IA) training.

### RESEARCH PRESENTATION AT SMTBEA-2024:

Dr. N.R. Sheela presented her research work entitled "Structural, Spectral, Frontier Molecular Orbitals, Linear and Non-Linear Optical Properties of Methyl N-Phenylsuccinamate - A Density Functional Theory Approach" at the 3rd International Conference on Sustainable Materials and Technologies for Bio and Energy Applications (SMTBEA-2024) held at SSN College during July 1st to 3rd, 2024.



## WORKSHOPS/FDPS/CONFERENCES PARTICIPATED:

Dr. Amutha Charu Sheela, Assistant Professor, and Ms. Anichamalar, Assistant Professor, participated in the following Expert Talk session:

- Innovative Process Development, Technology Readiness Level (TRL) Commercialisation of Lab Technologies & Tech-Transfer organized by the Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur) on 13/07/2024.

Ms. Anichamalar, Assistant Professor, participated in the following National Level Virtual Training Programme and Workshops:

- A Ten-Day Virtual Training on "IA Reskilling" organized by MoE's Innovation Cell and AICTE from 20/07/2024 to 29/07/2024.
- A one-day virtual Mentoring session on "Angel Investment/VC Funding Opportunities for Early Stage Entrepreneurs" organized by the Institution Innovation Council (IC201810371 - IIC SVCE Sriperumbudur) on 22/07/2024.

Ms. Anichamalar, Assistant Professor, and Mr. Shrihari S., Assistant Professor, participated in the following Virtual FDP:

- A seven-day Virtual FDP on Mastering the Art of Emotional Intelligence organized by Gokul Global University from 20/07/2024 to 26/07/2024.

Mr. Bharathikumar S., Assistant Professor, attended the following Workshop:

- A one-day National Virtual Workshop on "How to Prepare a Research Outline" organized by Elt@i Khandesh Chapter on 27/07/2024.

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FROM THE DEPARTMENTS OF SCIENCE AND HUMANITIES  
(APPLIED CHEMISTRY, APPLIED MATHEMATICS, APPLIED PHYSICS  
& HUMANITIES AND SOCIAL SCIENCES)

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