

**DEPARTMENT OF BIOTECHNOLOGY**

**MONTHLY NEWSLETTER**

# **BIOGAZETTE**

**ECHOING MULTIDISCIPLINARY PERSPECTS**

**Inside:**

- Events Conducted
- Research Activities
- Student Activities
- Faculty Activities
- Upcoming Events

**VOLUME-4**

**ISSUE-2**

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newsletter



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# EDITORIAL TEAM



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Secretary, SVEHT  
Visiting Professor  
Biotechnology



**DR. E. NAKKEERAN**  
Professor and Head  
Biotechnology



**DR. K. DIVAKAR**  
Associate Professor  
Biotechnology



**DR. K. GANESH PRASATH**  
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Biotechnology



**DR. J. G. ASWIN JENO**  
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# STUDENT EDITORIAL TEAM



**MS. S. THARANGKINI**  
IV Year Student  
Biotechnology



**MS. U. MRUDULA**  
III Year Student  
Biotechnology

## Vision

To foster an environment that empowers individuals to shape their future in biotechnology on both national and global platforms, enabling them to unleash their potential and drive innovation, by providing state-of-the-art facilities and robust support systems.

## Mission

- **Empowering Excellence:** Cultivate a dynamic environment where individuals are equipped with the knowledge, skills, and resources to innovate and lead on both national and global platforms in biotechnology.
- **Advancing Innovation:** Fostering a supportive ecosystem to develop the technical skills and ethics of individuals, enabling them to explore, experiment, and push boundaries to unleash their potential.
- **Enabling Future Leaders:** To empower the next generation of leaders who will shape the future of biotechnology, by providing a conducive environment where individuals can grow, thrive, and make contributions, instilling values of excellence, integrity, and social responsibility.

## B. Tech. Biotechnology

### Program Educational Objectives

**PEO-1.** To empower students with specialized biotechnology proficiencies essential for domain based industries and software sectors, fostering their readiness for multifaceted professional opportunities.

**PEO-2.** To cultivate critical thinking, foster innovation in healthcare, sustainability, and food security, and nurture research-driven biotechnology professionals, preparing them for advanced studies in higher education.

**PEO-3.** To empower students with entrepreneurial skills and ethics, cultivating leaders for innovation-driven growth in the bioindustry and beyond.

### Program Outcomes

**PO1: Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization to develop to the solution of complex engineering problems.

**PO2: Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.

**PO3: Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with

consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.

**PO4: Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.

**PO5: Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.

**PO6: The Engineer and The World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.

**PO7: Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.

**PO8: Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

**PO9: Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

**PO10: Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

**PO11: Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change.

### Program Specific Outcomes (PSOs)

**PSO-1:** Design biologics to meet societal needs using insights obtained from theoretical and practical knowledge of molecular biology, genetics, and bioprocessing through computational systems biology.

**PSO-2:** Apply bioprocess knowledge to develop a techno-economic process for addressing global health and environmental challenges through sustainable solutions.

**PSO-3:** Exhibit the skill sets necessary to bridge the industry-academia gap, fulfilling the needs of domain-based sectors.

## M. Tech. Biotechnology

### Program Educational Objectives

**PEO-1:** To prepare the students to excel and succeed in biotechnology research or industry through the latest state-of-art postgraduate education.

**PEO-2:** To train students with good scientific and technical knowledge so as to comprehend, analyze, design and adopt innovative and new technology that provides solutions for developing novel biotechnological products.

**PEO-3:** To create bioentrepreneurs with good communication and leadership skills, respect for authority and the life-long learning needed for a successful professional career.

### Program Outcomes

**PO-1:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

**PO-2:** An ability to write and present a substantial technical report/document.

**PO-3:** Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program.

**PO-4:** Ability to examine the technological problems in various domains of Biotechnology apply modern engineering tools for the prediction and modeling of complex engineering problems with a focus on sustainable development.

**PO-5:** Students should be able to acquire self-management and teamwork skills to collaborate with multidisciplinary teams from academic, industry and research institutes of national or international repute, with a commitment to lifelong learning.

**PO-6:** Potential to apply biotechnological solutions by adhering to the standards of bioethics with social responsibilities.

### Program Specific Outcomes (PSOs)

After the successful completion of M.Tech. Biotechnology program, the students will be able to:

**PSO-1:** Demonstrate the biotechnology concepts and research approach and apply them for healthcare and industrial applications.

**PSO-2:** Possess scientific and technological skills to design and develop novel bioproducts for addressing biological and healthcare challenges.

**PSO-3:** Analyze the socio-economical needs and possess the necessary expertise to become a bioentrepreneur.

## SVCE Global Connect

### SVCE at Confederation of Indian Industry (CII) Higher Education Global

The Office of Global Connect, Sri Venkateswara College of Engineering (SVCE), proudly shares that Dr. Ganesh Vaidyanathan Subramanian, Principal, SVCE, and Dr. Nakkeeran Ekambaram, Head - Global Connect, SVCE, represented the institution on Day 1 of the CII Higher Education Global Excellence Mission (15 - 21 February 2025) in the UK.

#### Day 1

The delegation engaged with Coventry University and De Montfort University, focusing on: Global Mobility & Student Exchange Opportunities, Enterprise & Innovation Initiatives, International Collaborations & Academic Partnerships and Exploring Advanced Research & Industry-Oriented Learning.



## Day 2

**University Overview & Campus Tour:** A deep dive into Nottingham University's academic excellence and world-class infrastructure. **Business School Interaction:** Engaging discussions with professors and global engagement leaders on business education, marketing, and finance. **Biotechnology & Biosciences Collaboration:** Productive interactions with faculty members from the School of Biosciences, exploring potential academic and research collaborations. **Sutton Bonington Visit:** A focused session with the Biosciences Department, followed by a campus tour, providing deeper insights into cutting-edge research facilities.



## Day 3

**University Overviews & Interactions:** Engaging discussions with university leaders on academic excellence, research collaborations, and student exchange opportunities. **Campus Tour – Sports Facilities (Leeds Beckett University):** A guided tour of the Carnegie School of Sport, showcasing state-of-the-art facilities for sports education and training. **Presentations by Deans & Faculty:** Insightful sessions from academic leaders across multiple disciplines, highlighting innovation and global learning opportunities. **CII Delegation Presentation:** A platform to showcase India's higher education strengths and explore areas for collaboration. **Networking Session:** Productive discussions with university representatives to strengthen academic ties and future partnerships.

**Day 3****Day 4**

Hull University Business School: Insights into academic excellence and existing partnership models. Health Sciences & Allam Medical Building Tour: Exploration of cutting-edge medical education facilities. Campus Tour: A guided visit showcasing the university's infrastructure and student resources. Engineering & DAIM Presentations: Engaging sessions on advanced research, followed by a tour of DAIM and Venn buildings. Interaction with Leadership & Faculty: Productive discussions with the Vice-Chancellor, Deputy Vice-Chancellor, senior faculty, and the global engagement team to explore collaboration opportunities.





## Day 5

Visit to Cambridge Judge Business School, University of Cambridge: A prestigious opportunity to experience world-class business education and innovation. Special Address by Dr. Alan D. Jagolinzer: A thought-provoking session on Financial Accounting, Corporate Accountability, and Global Business Trends. Cambridge Campus Tour: A visit to the historic and globally renowned University of Cambridge, gaining insights into its academic excellence and legacy. Discussion with Prof. Momna Hejmadi, University of Bath: Productive conversations on potential academic collaborations and future partnerships in research and higher education.



## SVCE Global Connect

### MoU with Northeastern University London

The Office of SVCE Global Connect, Sri Venkateswara College of Engineering (SVCE), is delighted to announce the signing of a Memorandum of Understanding (MoU) with Northeastern University London (NU London), UK. This collaboration unlocks exciting opportunities for SVCE students to pursue Master's degree programs at NU London, enhancing their global academic and career prospects. Dr. Ganesh Vaidyanathan Subramanian, Principal, Sri Venkateswara College of Engineering (SVCE), and Dr. Nakkeeran Ekambaram, Head - SVCE Global Connect and Dan Rolfe from Northeastern University were present during the MoU signing ceremony.

Key Highlights of the MoU:

- **Progression to Master's Degrees:** Eligible SVCE graduates can seamlessly transition to postgraduate programs at NU London.
- **Tuition Benefits:** SVCE students receive a 5% discount on their first-year tuition fees and are eligible to apply for NU London scholarships.
- **Application Fee Waiver:** NU London will waive the application fee for SVCE students enrolling in Master's programs.
- **Global Learning & Collaboration:** The partnership fosters faculty interaction, research collaboration, and student exchange initiatives.

This MoU reinforces SVCE's commitment to global education, research excellence, and international career opportunities for its students. We look forward to a transformative academic journey with NU London.



## Study Abroad Initiatives with the University of East London

SVCE is pleased to announce a productive discussion with the University of East London (UEL) to explore Study Abroad Programs (SAP), Summer Schools, Faculty Exchange, and other global academic collaborations. The meeting was attended by Arish Siddiqui, David Mackrory, and Mark Crossey from UEL, along with Prof. Ganesh Vaidyanathan Subramanian, Principal, Sri Venkateswara College of Engineering (SVCE), and Prof. Nakkeeran Ekambaram, Head - SVCE Global Connect.

At SVCE, we are dedicated to expanding international academic opportunities, fostering global exposure, and creating impactful learning experiences for our students and faculty.



## Study Abroad Initiatives with the London South Bank University

SVCE is pleased to announce a productive discussion with London South Bank University (LSBU) to explore Study Abroad Programs (SAP), Summer Schools, Faculty Exchange, and other global academic collaborations.

The meeting was attended by Prof. Raveendran Sundararajan, Associate Academic Dean, LSBU Global, London South Bank University, along with Prof. Ganesh Vaidyanathan Subramanian, Principal, Sri Venkateswara College of Engineering (SVCE), and Prof. Nakkeeran Ekambaram, Head - SVCE Global Connect.

At SVCE, we are committed to expanding international academic opportunities, fostering global exposure, and creating impactful learning experiences for our students and faculty.

### Meeting for International Collaboration with London South Bank University, London, England



## SVCE Partners with the University of Strathclyde

The Faculty of Engineering at the University of Strathclyde, Scotland, UK, has established a collaborative articulation agreement with Sri Venkateswara College of Engineering (SVCE), enabling eligible SVCE students to pursue a one-year study in various Engineering fields.

Key Highlights of the Partnership:

**One-Year Study:** Eligible SVCE students can progress to a Master's degree in disciplines like Chemical, Civil, Mechanical, Electrical, Naval Architecture, and more.

**£5,000 Scholarship:** Students applying through the partnership route will receive an automatic scholarship deducted from tuition fees.

**Study Abroad for UG Students:** Undergraduate students can study one or two semesters at the University of Strathclyde and transfer credits to their SVCE degree.

**World-Class Learning:** Strathclyde is home to Scotland's largest Faculty of Engineering and is recognized for its state-of-the-art facilities, industry collaborations, and global career opportunities.



University of  
**Strathclyde**  
Engineering



**POSTGRADUATE  
STUDY OPPORTUNITIES  
IN ENGINEERING**

## SVCE Signs MoU with Hochschule Kaiserslautern, Germany

The Office of Global Connect is delighted to announce that Sri Venkateswara College of Engineering (SVCE) has signed a Memorandum of Understanding (MoU) with Hochschule Kaiserslautern – University of Applied Sciences, Germany for Study Abroad initiatives and academic collaboration.

This partnership aims to foster:

- Student & Faculty Exchange Programs
- Joint Research & Development
- Academic Cooperation & Knowledge Sharing
- Organizing International Seminars & Conferences

### SVCE signs a Memorandum of Understanding (MoU) with Hochschule Kaiserslautern, University of Applied Sciences, Germany



**This partnership aims to foster:**

- ✓ **Student & Faculty Exchange Programs**
- ✓ **Joint Research & Development**
- ✓ **Academic Cooperation & Knowledge Sharing**
- ✓ **Organizing International Seminars**
- ✓ **Organizing International Conferences**

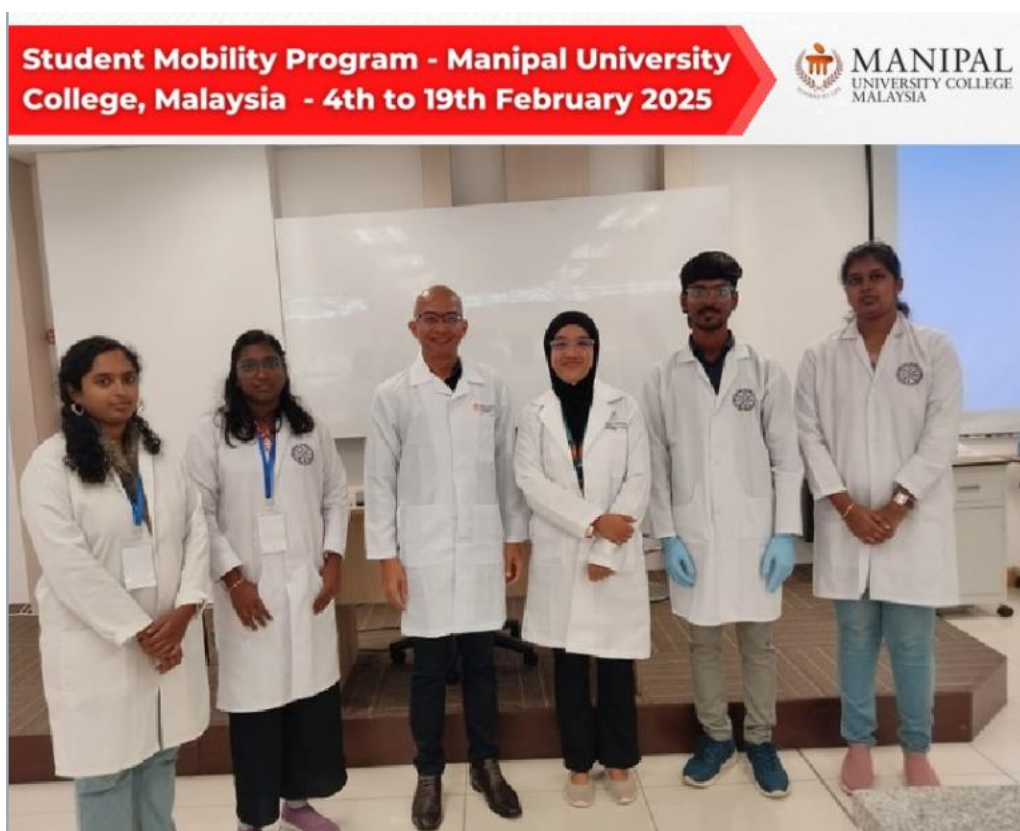
## Student Mobility Program at Manipal University College Malaysia

The first-year M. Tech Biotechnology, SVCE students from Sri Venkateswara College of Engineering successfully completed the Student Mobility Program at Manipal University College Malaysia, from 4<sup>th</sup> - 19<sup>th</sup> February 2025. This program provided hands-on exposure to advanced medical and biotechnological techniques while offering a rich cross-cultural experience.

Key Learning Highlights:

- Lab Diagnosis of Cancer at the Pathology Museum
- Hands-on Training: PCR, Blood Glucose & Urine Dipstick Tests
- Bioelectricity, ECG, BP & Pulmonary Function Tests
- Basic Life Support & Forensic Medicine Training
- Sessions on CRISPR & Dental Implants
- Human Anatomy Hands-on Session

Beyond academics, students immersed themselves in Malaysia's diverse culture, celebrating Chinese New Year and visiting Kuala Lumpur, Batu Caves, and Genting Highlands. This transformative experience enhanced their practical skills, global exposure, and international collaboration, reinforcing SVCE's commitment to academic excellence and innovation.



## Recent Addition to the Department Facility

At the Department of Biotechnology, Sri Venkateswara College of Engineering, we're committed to providing our students and research scholars with state-of-the-art technology. With the addition of the BIORAD ChemiDoc™ Go Imaging System to our lab, we're pushing the boundaries of innovation in molecular biology.

This advanced imaging system will enhance our capabilities in visualizing and analyzing gels, blots, and other biological samples, enabling cutting-edge research and data analysis. We're not just keeping up with advancements; we're setting new standards for scientific excellence.





## Inauguration of Students' Biotech Forum

The Department of Biotechnology at Sri Venkateswara College of Engineering proudly inaugurated its official student club, the Students' Biotech Forum SVCE, on 14th February 2025 at the Biotechnology Conference Hall.

Prof. M Sivanandham (Secretary, SVEHT & Visiting Professor, SVCE) graced the occasion as the Chief Guest and delivered an insightful keynote address. He spoke about the rise of AI in biotechnology and its potential to revolutionize the future.

He encouraged students to consider pursuing postgraduate studies in India IN, emphasizing that India is emerging as a global biotechnology hub due to the Government of India's bio-economy policies. He also motivated students to explore entrepreneurship, urging them to become job creators rather than job seekers.

Following the address, Prof. M. Sivanandham presented badges to the newly appointed office bearers of the Students' Biotech Forum:

President - Bavishya JR

Student Adviser - Sanjay S

General Secretary - Dhivakar K

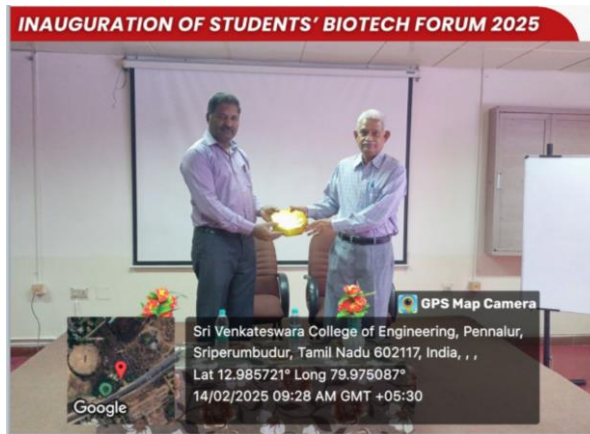
Treasurer - Tamilselvan P

Joint Secretary - Janani Kandaswamy

Executive Members - Diksha S and Sherlin Jijo

The office bearers then took a group photograph with Prof. M. Sivanandham and Prof. Nakkeeran Ekambaram (Head of Biotechnology) to mark the special occasion. The Department of Biotechnology also organizes various academic and technical events, including OMICS – A National Level Technical Fest, providing students with opportunities to explore and innovate in the field of biotechnology.

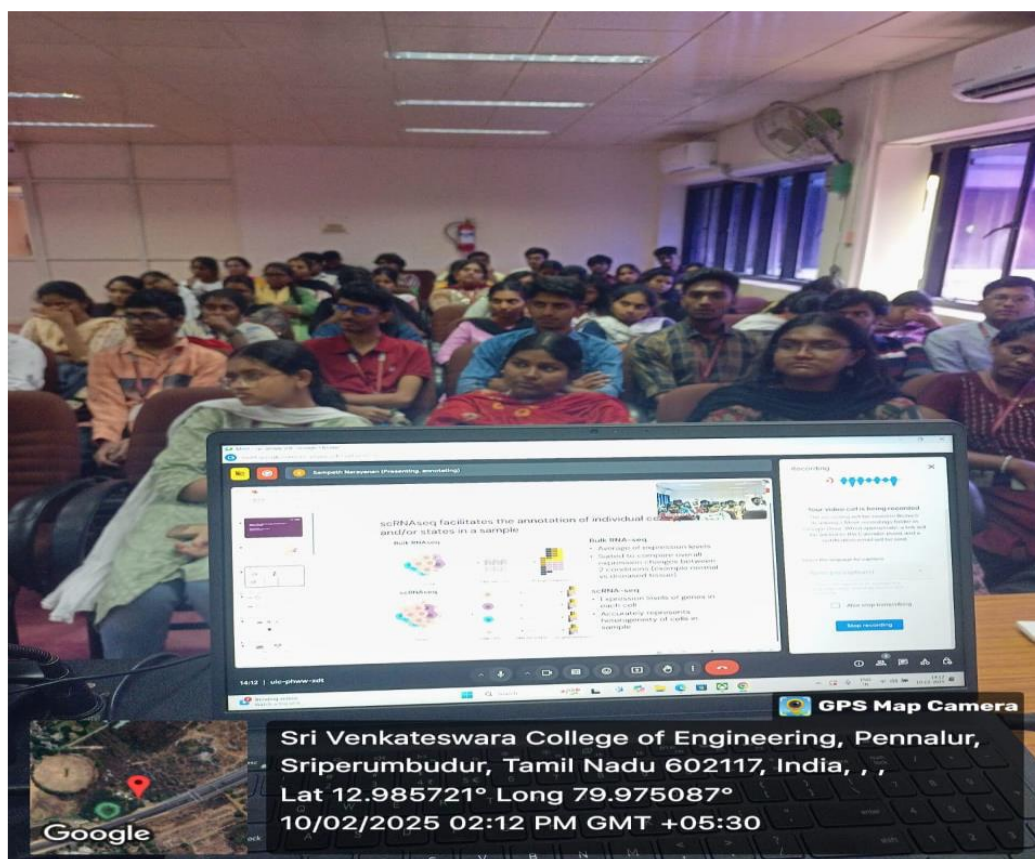
### Snapshots of the event



## Guest Lecture

The Guest Lecture on "Single cell studies to study cell in atherosclerosis" was organized by Department of Biotechnology, Sri Venkateswara College of Engineering, Sriperumbudur on 10<sup>th</sup> February 2025 at Biotechnology Conference Hall. The Guest Lecture was conducted by Mr. N. Sathish, Assistant Professor as organizing Secretary, Dr. Aswin Jenio JG Biotechnology as coordinators with Prof. E. Nakkeeran, Head of the Department, Biotechnology and Prof. M. Sivanandham, Secretary, SVEHT as Convener.

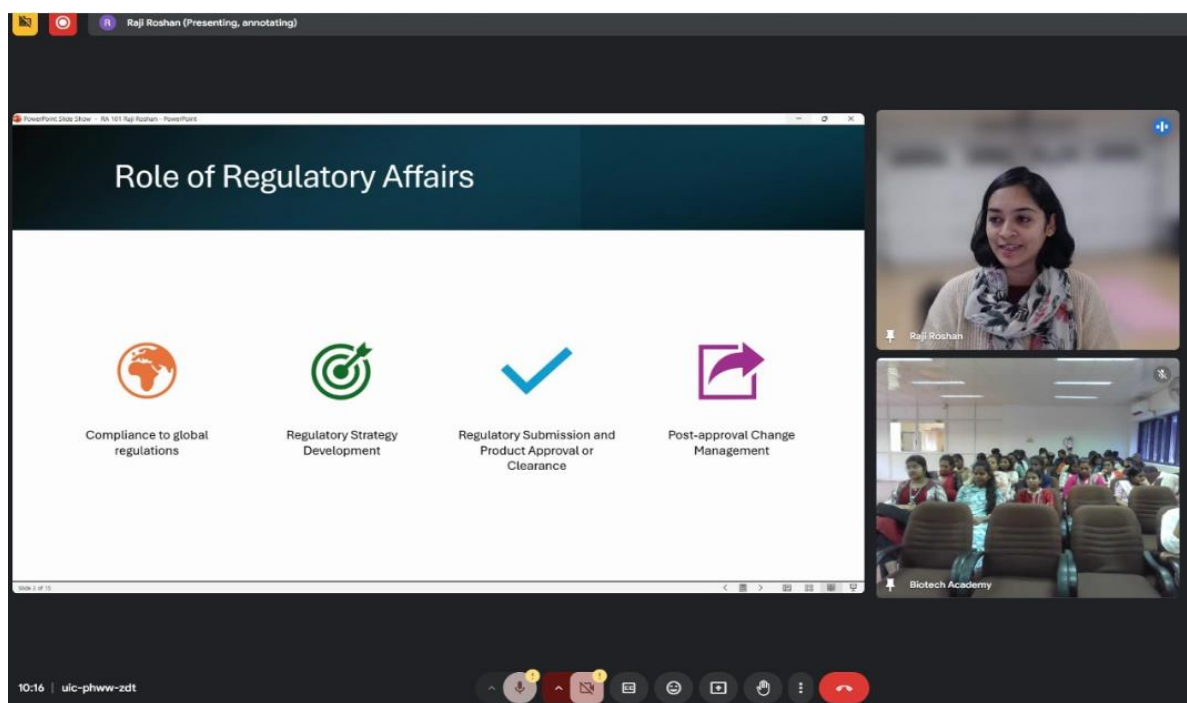
The session was started with welcome address by the AHOD, introduction of the Guest, Dr. Sampath Narayanan, Research Engineer, post-doctoral researcher, Karolinka Institute, Stockholm, Sweden was done by Janani.K.P, Executive Member of student's biotech forum. Participants including UG, PG students and the faculty members from SVCE attended the event with a total of 75. Dr. Sampath Narayanan briefed himself. He explained the significance of single cell study in Atherosclerosis treatment, method of isolation of single cell, sample preparation for single cell isolation, library preparation, causes of Atherosclerosis, cell plasticity etc. After the presentation students asked questions and got their doubts clarified. Vote of thanks was done by Dhivakar K, General Secretary of students' biotech forum.



## Alumni Interaction and Guest Lecture

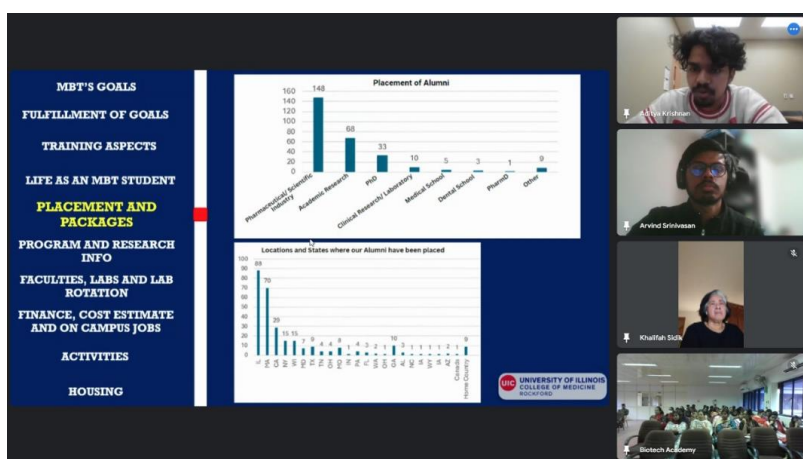
The Department of Biotechnology at Sri Venkateswara College of Engineering recently hosted an Alumni Interaction & Guest Lecture on "Regulatory Affairs as an Alternative Career for Biotechnology Graduates" by **Ms. Rajalakshmi (Raji) Roshan, RAC(US), Senior Manager - Regulatory Affairs, Akura Medical, San Francisco, USA**, our alumni from B. Tech Biotechnology (2007-2011 Batch) on 17<sup>th</sup> February 2025 (Monday) at the Biotechnology Conference Hall and via Google Meet. Ms. Rajalakshmi, an esteemed alumna, shared her insights on regulatory affairs and its emerging opportunities for biotechnology graduates. She provided valuable guidance on industry trends, career prospects, and skill development in the field of biotechnology regulations and compliance. The Department of Biotechnology at SVCE continues to bridge academia and industry by organizing such insightful sessions for the benefit of students and faculty.

### Snapshots of the event



## Alumni Interaction and Guest Lecture

The Department of Biotechnology at Sri Venkateswara College of Engineering was pleased to host a Guest Lecture & Interactive Session on "Higher Studies in the USA" on 17<sup>th</sup> February 2025 at the Biotechnology Conference Hall through online mode. The session featured our proud alumni, **Mr. Aditya Krishnan S & Mr. Arvind Srinivasan Anantharaman, Masters Students in Medical Biotechnology at the University of Illinois Chicago, USA**, along with Prof. Khalifah S., PhD, Director of the Medical Biotechnology Program, College of Medicine, University of Illinois Chicago, USA. The interactive session provided students with firsthand knowledge about pursuing higher education abroad, guiding them on building a successful academic and professional career.



The Standards Club SVCE of Sri Venkateswara College of Engineering, in collaboration with the Bureau of Indian Standards (BIS) and the Department of Biotechnology, is delighted to host a Guest Lecture on “Food Safety Codes and FSMS” by Ms. Arul Sathya Murugasamy, Joint Director & Scientist – ‘D’, BIS, New Delhi.



## Research Activities

### UG Intramural Grant

The Department of Biotechnology at Sri Venkateswara College of Engineering proudly congratulates **Ms. Anushya N and Ms. Sulakshuna Balaji**, final-year B. Tech Biotechnology students, along with their mentor, Mr. J. Hariharan, AP/BIO, for receiving the SVCE Intramural Project Grant of ₹10,000 for their research project titled "A Synergistic Approach to Breast Cancer Treatment through Phytochemical Delivery by Liposomes."

**congratulates our final year B.Tech Biotechnology students,  
Ms. Anushya N and Ms. Sulakshuna B, and their mentor,  
Mr. J. Hariharan, AP/BIO for receiving the**

**SVCE INTRAMURAL PROJECT GRANT OF ₹10,000/-**

**for the project titled "A Synergistic Approach to Breast  
Cancer Treatment through Phytochemical Delivery by  
Liposomes"**



**Ms. Anushya N**  
IV-Year  
B.Tech Biotechnology



**Ms. Sulakshuna B**  
IV-Year  
B.Tech Biotechnology



**Mr. Hariharan J**  
Assistant Professor  
Mentor

Connect @

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[hodbt@svce.ac.in](mailto:hodbt@svce.ac.in)

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## UG Intramural Grant

The Department of Biotechnology at Sri Venkateswara College of Engineering proudly congratulates **Mr. Gopikrishnan K**, final-year B. Tech Biotechnology student, and his mentor, Dr. Krishnan Ganesh Prasath, AP/BIO, for receiving the SVCE Intramural Project Grant of ₹10,000 for their research project titled "Development of Nano Polymer-Based Fatty Acid Emollients for Combating Fungal and Bacterial Infections."

congratulates our final year B.Tech Biotechnology student,  
**Mr. Gopikrishnan K** and his mentor, **Dr. K. Ganesh Prasath**,  
AP/BIO for receiving the

**SVCE INTRAMURAL PROJECT GRANT OF ₹10,000/-**

for the project titled "**Development of Nano Polymer Based  
Fatty Acid Emollients for Combating Fungal and Bacterial  
Infections**"



**Mr. Gopikrishnan K**  
IV-Year  
B.Tech Biotechnology



**Dr. K. Ganesh Prasath**  
Assistant Professor  
Mentor

## UG Intramural Grant

The Department of Biotechnology at Sri Venkateswara College of Engineering proudly congratulates **Mr. Girish Renganathan**, final-year B. Tech Biotechnology student, and his mentor, Dr. Isaivani Jayachandran, AP/BIO, for receiving the SVCE Intramural Project Grant of ₹10,000 for their research project titled "Formulation of Natural Neuroprotective and Hepatoprotective Compound for Military Personnel Operating in Extreme Conditions."

congratulates our final year B.Tech Biotechnology student,  
**Mr. Girish** and his mentor, **Dr. J. Isaivani**, AP/BIO for  
receiving the

**SVCE INTRAMURAL PROJECT GRANT OF ₹10,000/-**

for the project titled "**Formulation of Natural  
Neuroprotective and Hepatoprotective Compound for  
Military Personal Operating In Extreme Conditions**"



**Mr. Girish**  
IV-Year  
B.Tech Biotechnology



**Dr. J. Isaivani**  
Assistant Professor  
Mentor



## Award at International Conference

**Ms. Deepika S**, a second-year M. Tech Biotechnology student, has secured second place with a cash prize of ₹1000 in the oral presentation at the International Conference on Innovations in Life Sciences (ICILS'25), organized by the Department of Biochemistry, SRM IST Chennai, from February 3-5, 2025.



**Ms. Mrudula Umamaheswaran**, a third-year B. Tech Biotechnology student, has secured the Best Paper Award at the International Summit on Sustainable Commerce – SPAR 2025 (Sustainability, Policy Making, Accountability & Responsibility). She presented a paper titled "Navigating Sustainability: Challenges and Innovation in Pharma Packaging," co-authored with Ms. M. Janani from M.O.P. Vaishnav College for Women.



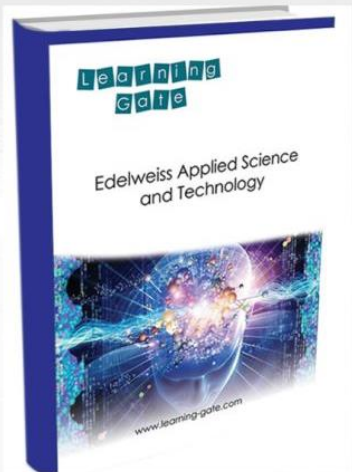
**Ms. Mageshwari R**, II year Biotechnology, under the guidance of **Mr. Naga Vignesh S** and **Mr. Hariharan J** have received the "Best Presenter" award for the Oral presentation entitled "Investigating Regulatory mechanisms in T1DM based on an integrated approach of Transcriptomics and Genetic pathway analysis" in the International Conference on Recent advancements in Chemical, Environmental, and Energy Engineering, held at Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Kalavakkam from 06<sup>th</sup> to 07<sup>th</sup> February 2025.

## Publication of Research Article


**Dr. Nakkeeran Ekambaram**, Professor and HOD - Biotechnology published a research article titled “Workplace safety drivers: Strategic insights into communication, procedure, infrastructure, leadership & emergency procedure” in the Edelweiss Applied Science and Technology Journal.

“Workplace safety drivers: Strategic insights into communication, procedure, infrastructure, leadership & emergency procedure”

**Journal: Edelweiss Applied Science and Technology**



**AUTHOR**



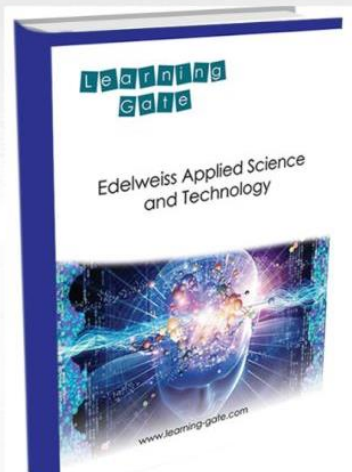
**Dr. E. Nakkeeran**  
Professor & Head  
Biotechnology

DOI: [doi.org/10.55214/25768484.v9i2.4778](https://doi.org/10.55214/25768484.v9i2.4778)


**Dr. Nakkeeran Ekambaram**, Professor and HOD - Biotechnology published a research article titled “Advancing safety in chemical industries: A systematic review of risk mitigation strategies and technologies” in the Edelweiss Applied Science and Technology Journal.

“Advancing safety in chemical industries: A systematic review of risk mitigation strategies and technologies”

**Journal: Edelweiss Applied Science and Technology**



**AUTHOR**



**Dr. E. Nakkeeran**  
Professor & Head  
Biotechnology

DOI: [doi.org/10.55214/25768484.v9i2.4797](https://doi.org/10.55214/25768484.v9i2.4797)

## Student Activities

### Awards in SVCE club activities

The Department of Biotechnology, Sri Venkateswara College of Engineering (SVCE) proudly congratulates **Ms. Srinidhi Varadharajan**, a second-year B. Tech Biotechnology student, for securing the Best Delegate award along with a cash prize of ₹2,000 at IntraMUN'25, conducted by the Speakers' Forum, SVCE, on February 6-7, 2025.



The Department of Biotechnology, Sri Venkateswara College of Engineering (SVCE) proudly congratulates **Ms. Neha Ramganesh and Ms. Srinidhi Varadharajan**, a second-year B. Tech Biotechnology student, for securing 2<sup>nd</sup> and 3<sup>rd</sup> place respectively, in the Essay Writing Competition organized by the Standards Club SVCE on the topic "Decoding Product Standards: A Consumer's Roadmap to Quality." This competition, held in celebration of National Consumers Day, emphasized the importance of product standards in ensuring quality and consumer awareness.



## National Level Technical Symposium

**Akshaya Narendhiran, Mahathi Thokala, and Kamesh R**, second-year B. Tech Biotechnology students, have secured 1<sup>st</sup> place in the Electric Wordza competition at PULSE '25, a National Level Technical Symposium organized by the Department of Electrical and Electronics Engineering, SVCE. Their outstanding performance earned them a cash prize of ₹1500, showcasing their technical knowledge, problem-solving skills, and interdisciplinary excellence.



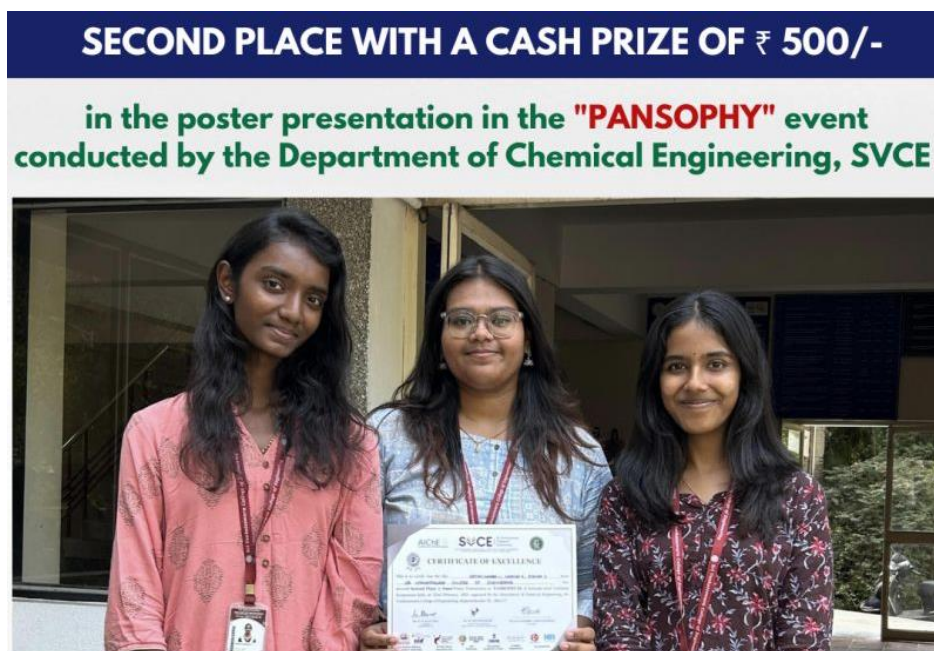
## Award in Hackathon

**Ms. Janani Kandaswamy, Ms. Lalithambika S K and Ms. Dishetha K**, under the guidance of **Dr. Isaivani jayachandran**, Assistant Professor, Biotechnology, secured 2<sup>nd</sup> place in Hack'her'Thon v2.0, organized by the Women Empowerment Cell and EPIC Cell of SVCE on 12th & 13th February 2025. Their innovative project on "Bioremediation of Wastewater Using Microbial Consortia: A Sustainable Approach" earned them a cash prize of ₹ 9000.



## Award in Event

The Department of Biotechnology, Sri Venkateswara College of Engineering is proud to announce that Ms. Diksha S, Ms. Hemachandra U, and Ms. Srinidhi K (II Year B. Tech Biotechnology) have secured 2<sup>nd</sup> place with a cash prize of ₹500/- in the Poster Presentation at PANSOPHY, organized by the Department of Chemical Engineering SVCE on 22<sup>nd</sup> February 2025.



## BIS World Record Event 2025

The Department of Biotechnology, Sri Venkateswara College of Engineering is proud to announce that our students have won multiple prizes in various competitions conducted by Bureau of Indian Standards (BIS) at the World Record Event by on 14th February 2025.

- Ms. Vaishnavi Madabhushi (III Year BT) – 1st Prize (₹3,000/-) in Tri-Standards Race
- Ms. Keerthanaa Sankarganesh (III Year BT) – 3rd Prize (₹1,000/-) in Tri-Standards Race
- Ms. Bavishya JR (IV Year BT) – 2nd Prize (₹1,000/-) in Pick 'N' Fix
- Ms. Gayathri R, Ms. Hashrika Ramesh, Ms. S Logeshwari S, and Ms. Swaathysri Maheswaran (III Year BT) – 1st Prize (₹3,000/-) in Guess the Standards

### Other Activities by the students

- Ms. Logeshwari S, Ms. Hashrika R, Ms. Swaathysri Maheswaran, and Mr. Balasubramaniam J M of the 2022-26 batch, B.Tech Biotechnology, attended a workshop on "Molecular Docking and Molecular Dynamics Simulation" held on 5th February 2025 at SRM Institute of Science and Technology.
- Ms. Logeshwari S, Mr. Balasubramaniam J M, and Ms. Swaathysri Maheswaran of the 2022-26 batch, B.Tech Biotechnology, presented a poster titled "Structural Optimization and Simulation of HER-2 Based Therapeutic Antibodies for Pancreatic Cancer Treatment" at the National Conference on Genetics and Genetic Engineering conducted by SRM Institute of Science and Technology on 6th and 7th February 2025. The research was conducted under the mentorship of Mr. Naga Vignesh S. and Mr. Hariharan J.
- Mr. Kaushik Varun P, Mr. Tamilselvan P, Mr. Yashwanth Kumar S, Mr. Shrihari J, Mr. John Samuel S, and Mr. Gilford Thomas I of the 2022-26 batch, B.Tech Biotechnology, presented a paper titled "Simulation Model for Predicting Plant Growth Enhancement Using Engineered Biofertilizers" at iCUBE 4.0, organized by the SVCE Science Club, Sri Venkateswara College of Engineering, on 7th and 8th February 2025.
- Ms. Logeshwari S, Ms. Hashrika R, and Ms. Swaathysri Maheswaran of the 2022-26 batch, B.Tech Biotechnology, presented their project titled "Production of Biodegradable Packaging Materials with Chrysanthemum and Fungal Mycelium" in the Hack'HER'thon conducted by Sri Venkateswara College of Engineering, held on 12th and 13th February 2025.
- Ms. Gayathri R, Ms. Hashrika R, Ms. Logeshwari S, and Ms. Swaathysri Maheswaran of the 2022-26 batch, B.Tech Biotechnology, secured First Prize (₹3,000/-) in the "Guess the Standards" event conducted by the Bureau of Indian Standards (BIS) in the World Record event held on 14th February 2025.
- Ms. Vaishnavi M of the 2022-26 batch, B.Tech Biotechnology, secured First Prize (Rs. 3,000/-) in the Tri-Standards Race conducted by the Bureau of Indian Standards (BIS) in the World Record event held on 14th February 2025.
- Ms. Keerthana S G of the 2022-26 batch, B.Tech Biotechnology, secured Third Prize (Rs.1,000/-) in the Tri-Standards Race conducted by the Bureau of Indian Standards (BIS) in the World Record event held on 14th February 2025.
- Mr. Kaushik Varun P, Mr. Tamilselvan P, and Mr. Yashwant Kumar S of the 2022-26 batch, B.Tech Biotechnology, presented a paper titled 'Simulation Model for Predicting Plant

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Growth Enhancement Using Engineered Biofertilizers' at Pansophy 25, organized by the Department of Chemical Engineering, Sri Venkateswara College of Engineering, held on 22nd February 2025.

- Mr. Immanuel Nesaraja Moses, Ms. Shamritha S and Ms. Shreenidhi C of I year, B.Tech Biotechnology have participated in National Conference on Genetics and Genetic Engineering conducted by SRM institute of Science and Technology, Kattankalathur on February 6-7, 2025.
- Ms. Daksha S, Mr. Aadhisri Prabanchan MS, Ms. Illankavi K, Mr. Jenish Abraham D, Ms. Tharini AL, Ms. Dharani Aishwarya, Ms. Ivana Hesper B and Mr. Guhan Kallapiran of I year, B.Tech Biotechnology have participated in the Horizons structure and computational biotechnology hosted by IIT Hyderabad on February 28<sup>th</sup> and March 1<sup>st</sup>, 2025.
- Mr. Immanuel Nesaraja Moses and Ms. Shreenidhi C of I year, B.Tech Biotechnology have participated in Workshop on Exploring the Neural Science and Behaviour in Animal Models conducted by SRM institute of Science and Technology, Kattankalathur on February 5, 2025.
- Ms. Daksha S, Ms. Illankavi K, Ms. Refah R of I year, B.Tech Biotechnology under the guidance of Dr. S. Pandi Prabha, Professor, Biotechnology has participated in Hack'her'Thon v2.0, organized by the Women Empowerment Cell and EPIC Cell of SVCE on 12<sup>th</sup> & 13<sup>th</sup> February 2025.
- Ms. Deepika Kannan and Ms. Priyanthini G of I year, B.Tech Biotechnology have participated in Hack'her'Thon v2.0, organized by the Women Empowerment Cell and EPIC Cell of SVCE on 12<sup>th</sup> & 13<sup>th</sup> February 2025.

## Faculty Activities

### Workshop on Outcome-Based Education and Accreditation

The Department of Biotechnology, Sri Venkateswara College of Engineering congratulates **Dr. Ganesh Vaidyanathan Subramanian, Professor & Principal, SVCE,** and **Dr. Nakkeeran Ekambaram, Professor & Head – Biotechnology,** for their participation in the One-Day Awareness Workshop on Outcome-Based Education and Accreditation.

This workshop was jointly organized by the National Board of Accreditation (NBA) and Anna University Chennai and was held at TAG Auditorium, Anna University, Chennai, on February 9, 2025.

Their participation reflects SVCE's continuous commitment to academic excellence and quality education. Wishing them success in implementing valuable insights from this workshop for the betterment of our students.





### Award in International Conference

The Department of Biotechnology, Sri Venkateswara College of Engineering (SVCE) proudly congratulates our faculty member, **Mr. Sathish Nagarajan**, Assistant Professor - Biotechnology for being awarded the Certificate of Merit for Best Presenter in the Oral Presentation at the International Conference on Recent Advancements in Chemical, Environmental, and Energy Engineering organized by the Department of Chemical Engineering, Sri Sivasubramaniya Nadar College Of Engineering, Kalavakkam, held on February 6-7, 2025.

The presentation, titled "Reduction Ability of Lactobacillus and Its Resistant Raised Variants against Cadmium, Chromium, and Lead," highlights innovative research in environmental biotechnology.

**CONGRATULATIONS** to our faculty, **Mr. S. Sathish, Assistant Professor-Biotechnology** for securing the

**Best Presenter Award**

in the Oral Presentation entitled "Reduction ability of lactobacillus and its resistant raised variants against Cadmium, Chromium and Lead" at the "International Conference on Recent advancements in Chemical, Environmental, and Energy Engineering

**MR. N. SATHISH**  
ASSISTANT PROFESSOR - BIO

### Other Activities by the faculty

Dr. K. Vasantharaj, served as a judge in the Fourth Edition of iCUBE, a national-level intercollegiate technical event organized by the SVCE Science Club, held on the 7<sup>th</sup> and 8<sup>th</sup> of February 2025.



Dr. S. Pandi Prabha has attended a Short Term Course/Faculty Development Program (STC/FDP) on “Microplastic pollution: Sources, Analysis and Remediation conducted by Dr B R Ambedkar National Institute of Technology Jalandhar from 03<sup>rd</sup> to 07<sup>th</sup> February 2025.

Mr. J. Hariharan has attended a PALS Theory to Practice cum Lab Visit - Biotechnology Department Reach at IIT Madras 24<sup>th</sup> January 2025.

Dr. K. Vasantharaj, AP/BIO has completed the Short-Term Programme on "Artificial Intelligence in Research: Tools, Techniques, and Trends" under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) in collaboration with Department of Computer Science & Technology, Central University of Punjab and Organized by MMTTC- Central University of Punjab from 13<sup>th</sup> to 18<sup>th</sup> January, 2025.

## Industrial Visit

The Department of Biotechnology, Sri Venkateswara College of Engineering is delighted to share that our second-year B. Tech Biotechnology students recently visited Synkromax Biotech Private Limited, Thiruvallangadu, Tamil Nadu, on 18th February 2025.

During this hands-on learning experience, students explored:

- Fermenters, Bioreactors, and Reactors
- Blenders, Filling Machines, and QA/QC Labs
- Product Application Laboratories and Storage Units
- Utility Sections including Boilers, Air Compressors, Cooling Towers, ETP, and Water Treatment Plants. This visit provided valuable industry insights into enzyme production, probiotics, and agri-products while enhancing students' practical knowledge.



## Alumni Corner

### SVCE UK Alumni Meet 2025

As part of the SVCE Global Connect Initiative, Dr. Ganesh Vaidyanathan Subramanian, Principal, Sri Venkateswara College of Engineering (SVCE), and Dr. Nakkeeran Ekambaram, Head - SVCE Global Connect, had the privilege of hosting the SVCE UK Alumni Meet 2025 at Ibis Hotel, London, on 23rd February 2025. The evening was filled with nostalgia, networking, and inspiring conversations, bringing together alumni from various batches who have made remarkable strides in their respective fields.

#### Alumni in Attendance:

Mr. Ganesh Ram B (BE Mech, 1988-92)  
Mr. Rishi Kora (BE Mech, 2020-24)  
Mr. Premkumar Kora (BE CSE, 1988-92)  
Mr. V. Venkatesh (BE ECE, 1988-92)  
Mr. R. Valliappan (BE ECE, 1993-97)  
Mr. Ram Subash Bodapatti (BE CSE, 2000-04)  
Mr. S. Chellappan (BE CSE, 1993-97)

The event was a wonderful opportunity to reconnect, share experiences, and strengthen the global SVCE alumni network. Moments like these remind us of the lifelong bonds formed at SVCE and the impact our alumni create worldwide. A heartfelt thanks to all our alumni for making this meet truly special! A special note of gratitude to the Present and Past Presidents of the SVCE Alumni Association Sri Venkateswara College of Engineering (AASVCE) for their support. Looking forward to more such reunions in the future.



## Upcoming Events

**SVCCE** Sri Venkateswara  
College of  
Engineering  
Autonomous Institution, Affiliated to  
Anna University, Chennai  
Approved by the AICTE, Accredited by NAAC



**SVCCE IQAC**  
Consciousness for Quality

# DEPARTMENT OF BIOTECHNOLOGY

IN ASSOCIATION WITH

## STUDENTS' BIOTECH FORUM

PRESENTS

# BIOTRYST' 25

- Industry Academia Interaction Meet

## INNOVATE-INTEGRATE-IMPACT

**MARCH 13TH & 14TH, 2025**

### CONVENERS

PROF. M. SIVANANDHAM, SECRETARY, SVEHT  
DR. E. NAKKEERAN, PROFESSOR & HOD/BIO

### ORGANIZING SECRETARY

DR. S. PANDI PRABHA, PROFESSOR & AHOD/BIO

### FACULTY COORDINATORS

DR. V. SUMITHA, PROFESSOR/BIO  
DR. J. ISAIVANI, ASST. PROFESSOR/BIO

Upcoming Events



STUDENTS  
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Sri Venkateswara  
College of  
Engineering

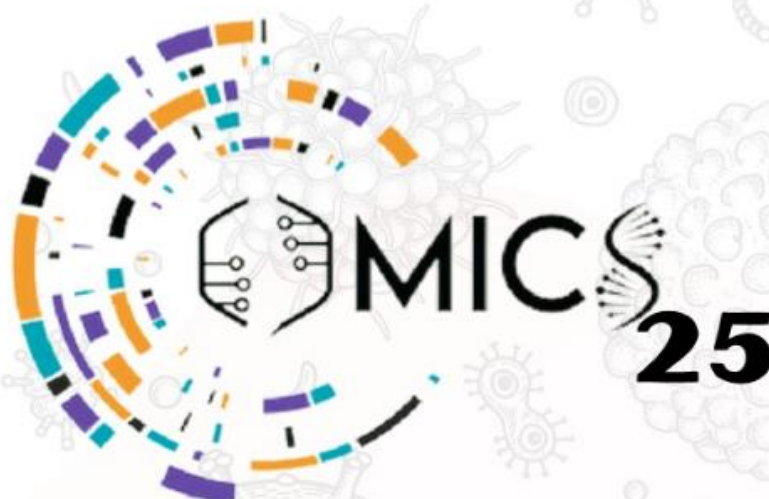
**DEPARTMENT OF BIOTECHNOLOGY**

in association with

**STUDENTS' BIOTECH FORUM**

*presents*

**A-NATIONAL LEVEL TECHNICAL  
SYMPOSIUM**



**19<sup>TH</sup> MARCH 2025**

**CONVENERS**

PROF. M. SIVANANDHAM, SECRETARY, SVEHT

PROF. E. NAKKEERAN, HOD/BIO

**FACULTY COORDINATORS**

MR. N. SATHISH (ASSISTANT PROF.) - 9677112636

DR. K. GANESH PRASATH (ASSISTANT PROF.) - 9442235542

DR. J. G. ASWIN JENO (ASSISTANT PROF.) - 9791141810

**STUDENT COORDINATORS**

BAVISHYA (PRESIDENT) - 9941598500

SANJAY (STUDENT ADVISER) - 6385576432

DHIVAKAR (GENERAL SECRETARY) - 9790700827

**LAST DATE TO REGISTER AND  
SUBMIT ABSTRACT : 13/03/2025**



**INFORMATION BROCHURE FOR  
ADMISSION TO M.TECH BIOTECHNOLOGY,  
M.S. (BY RESEARCH) & Ph.D PROGRAM  
(2025-2026)**

**OPPORTUNITY FOR  
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**BEGIN YOUR BIOTECHNOLOGY CAREER  
JOURNEY AT SVCE – APPLY NOW!**

Sri Venkateswara College of Engineering (Autonomous) is a premier self-financing institution started in 1985 and received Autonomous status in 2016. Department of Biotechnology was established in 2005 under the guidance of our chairman, Governing Council Dr. A.C. Muthiah, a well-known industrialist, in order to explore and experience new frontiers of Biotechnology. The department started B.Tech Biotechnology in 2005, M.Tech Biotechnology in 2010 & M.S. (by Research) and Ph.D. in 2011.

**EXTERNAL  
GRANTS**

**₹2.18 Crores**

received from various funding agencies like DBT, ICMR, DST-SERB, CSIR, AICTE, TNSCST, EDII

**RESEARCH FOCUS**

- Immunology & Immuno-technology
- Biomaterials & Tissue Engineering
- Stem Cell Technology
- Food Biotechnology
- Genetic Engineering & rDNA Technology
- Cellular & Molecular Biology
- Computational Systems Biotechnology
- Bioprocess Engineering
- Regenerative Medicine & Diseases
- Herbal Medicines & Antioxidants Research



**Biotechnology, SVCE**

**Awardees of PG Scholarship - 2024**



**SCHOLARSHIPS FOR PG STUDENTS**

- PG scholarship of Rs.50,000/year for 30% of the top scorers in their UG degree of sanctioned class strength for 2 years.
- Management Scholarships for tuition fees and assistance for books and instruments.
- AICTE-GATE Scholarship of Rs. 12,400/month for 24 months from AICTE for students having valid GATE score.
- Intramural M.E/M.Tech Student Research Grant to carry out innovative projects in Biotechnology.
- Sponsorships for students to participate in conferences.

**In-Demand  
Biotechnology  
Careers that will  
shape your future**

- Research Assistant
- Technical Officer
- Clinical Scientist
- Pharma Engineer
- Biostatistician
- Academic Jobs
- Project Assistant
- Research Interns
- Bioinformatician
- Medical Writer
- Research Analyst
- Scientific Assistant
- Laboratory Technician
- Quality Control Analyst
- Regulatory Affairs Specialist
- Clinical Research Coordinator
- Calibration Technician
- Environmental Scientist

**Eligibility:** As per Anna University Guidelines. Tests and Admission by Anna University & Entrance Examinations conducted by Consortium of Self-Financing Professional, Arts and Science Colleges in Tamilnadu.

Connect @ [www.svce.ac.in/departments/biotechnology/](http://www.svce.ac.in/departments/biotechnology/) [hodbt@svce.ac.in](mailto:hodbt@svce.ac.in) 9791668110

**DEPARTMENT OF BIOTECHNOLOGY**  
**SRI VENKATESWARA COLLEGE OF ENGINEERING**



**COURSES OFFERED**

1. B.Tech Biotechnology
2. M.Tech Biotechnology
3. M.S. (By Research)
4. Ph.D. Biotechnology

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