



VIVEKANANDHA

ARTS AND SCIENCE COLLEGE FOR WOMEN

An ISO 9001:2015 Certified Institution | Affiliated to Periyar University, Salem
Recognised under section 2(f) and 12(B) of the UGC Act, 1956

Sankagiri, Salem, Tamilnadu, India



Prof. Dr. M. Karunanidhi
Chairman & Secretary

Volume 1, June & July 2025

DEPARTMENT OF BIOTECHNOLOGY NEWSLETTER



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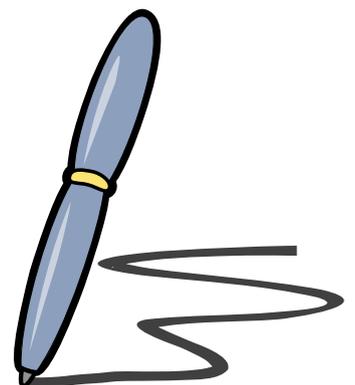
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Editorial Desk

Dr. S. G. Prabhakaran
Assistant Professor & Head
Faculty members & Students
Department of Biotechnology

The woods are lovely, dark and deep, But I have promises to keep,
And miles to go before I sleep, And miles to go before I sleep
– Robert Frost





Vision

- The vision of our Department of Biotechnology is to be a center of excellence in Biotechnology education, research, and innovation, fostering scientific knowledge and technological advancements for societal and industrial benefit



Mission

- The mission of our Department of Biotechnology is to bridge the gap between academia and industry through quality education, cutting-edge research, and entrepreneurship; to nurture innovation and transform ideas into patentable products; and to empower students with skills and opportunities for successful careers in the Biotechnology sector



Objectives

- To provide outcome-based education and hands-on training through advanced laboratory facilities and innovative teaching methodologies, preparing students for academic excellence and professional competence in the field of Biotechnology.
- To promote research-driven learning and foster innovation by encouraging faculty and students to undertake interdisciplinary research projects, leading to publications, patents, and technological solutions with societal and industrial relevance.
- To develop industry-ready graduates and entrepreneurs by strengthening collaborations with biotechnology industries, research institutions, and incubators, thereby enhancing job placement, skill development, and startup opportunities for students.

In three words I can sum up everything I've learned
about life: it goes on.
- Robert Frost

DEPARTMENT OF BIOTECHNOLOGY

Biotechnology involves the technological application that utilizes the biological living organisms or its derivatives to make or modify products or processes for specific use or to develop products. The Department of Biotechnology is well established with the state-of-art laboratory facilities, excellent teaching & learning infrastructure, research & innovation ecosystem intended to create a job oriented professional training, entrepreneurship aptitude and impart research skills to the prospective students and attain a successful outcome based higher education in the field of life sciences with professional excellence in biotechnology.

- **Research & Development:** Develop new drugs, therapies, diagnostic tools and agricultural products
- **Pharmaceuticals and Healthcare:** Drug discovery, development & production.
- **Agriculture and Food Processing:** Improved crop yields, disease resistance, and enhanced nutritional value
- **Environmental Biotechnology:** Environmental conservation & remediation, including waste management, pollution control and sustainable energy production.
- **Bioinformatics:** Omics technology, automating analyses & building models, data management, data mining & visualization, NGS & big data analytics
- **Biomanufacturing:** Bioprocess & large scale production of industrial bioproducts
- **Clinical Research:** Managing clinical trials and ensuring compliance with protocols.
- **Regulatory Affairs:** Ensuring that biotechnology products comply with legal and ethical standards and obtaining necessary approvals for new products.
- **Quality Assurance & Quality Control:** Maintaining the quality and safety of biotechnology products throughout their development and production.
- **Entrepreneurship:** Entrepreneurs to develop and market innovative products & Services

A STRONG BOND



Effective mentoring is essential for nurturing young, promising minds, helping them flourish and progress daily. Traits such as empathetic observation, mindfulness, receptivity to change, and network building play a key role in shaping an individual's personality. A constructive approach, fostering self-sufficiency, and instilling moral values are vital for growth. The evolving teaching-learning environment has become more student-centric, where the educator's role has shifted to that of a facilitator. This allows for a deeper exploration of ideas, encourages expression, and smoothens the overall learning process.

Every individual is born with unique talents, which are honed with time and resources. Acquiring the right guidance at the right time is crucial for success. It's important to understand that each student has their own pace and level of comprehension. The mentor must recognize the needs of the mentee and design personalized learning paths.

A mentor encourages the student to indulge in domain activities that aimed to foster a vibrant academic culture among students and faculty by promoting innovation, collaboration, and scientific inquiry in the field of Biotechnology thereby to become a leading platform within the academic community that nurtures future biotechnologists through research excellence, interdisciplinary collaboration, and impactful contributions to science and society.



The teaching methodologies employed by our faculty ensure that students enjoy an unobstructed journey of higher education while excelling in their chosen fields.

To support skill development, the department offers various initiatives that enhance student capabilities and knowledge. Some of these include:

- Workshop & Professional Training
- Field trips & Industrial visits
- Expert lectures & Panel discussions
- Intra & inter Departmental events and competitions
- Symposium/ Seminar & Conferences
- Inter collegiate technical & cultural meets
- Outbound training programs
- Skill development courses
- Placement training
- Career Enhancement courses & mock Interviews

Objectives of the domain activity

- Knowledge exchange and collaboration
- Industry and expert engagement
- Innovation and real-world application
- Research skill development
- Research dissemination & career advancement

Outcome of the activity based learning

- Increased student participation in scientific activities
- Stronger academia-industry linkages
- Innovation-driven problem solving
- Enhanced research competency
- Improved research output and recognition
- Self employability skills and professional development

FACULTY ACHIEVEMENTS



Dr S. G. Prabhakaran
AP & HoD/ Biotech

Event organized

- Co-ordinator for Six days Student Induction Program (SIP) for 1 year UG students from 01.07.2025 to 08.07.2025 at Vivekanandha Arts and Science College for Women, Sankari

FDP attended

- One day Faculty Development on "Outcome Based Education (OBE) – Implementation Strategies" organized by the IQAC and Institution's Innovation Council (IIC) of Vivekanandha College of Engineering for Women (Autonomous) on 23.06.2025

Book published

- Dr. M. Srikumar & Dr. S. Deepa (June 2025). "Methods & Choices for Career Discovery for Teens" – Career Guide.

Online course

- NPTEL online certification course on "Counseling Psychology" (57%) organized by Savitribai Phule Pune University, Pune on May 2025.



Dr. M. Srikumar
Asst. Prof./ Biotech



Ms. S. Anandhi
Asst. Prof./ Biotech

FDP attended

- Participated in Faculty Development Program on "Naan Mudhalvan: Microsoft Digital Skills" organized by Periyar University, Salem from 23.06.2025 to 28.06.2025

Workshop attended

Participated in Two days ICMR Sponsored National Level Workshop on "The Generative AI Revolution in Health Care: Precision, Efficiency and Innovation" on 16.07.2025 & 17.07.2025



Ms. M. Abinaya
Asst. Prof./ Biotech

STUDENT PARTICIPATION

Handloom Fashion Show (24.07.2025)



Ms. Mahithavarshini, Ms. Nishalakshmi and Ms. Vaishnavi of I B. Sc Biotechnology (2025–2028) and Ms. Priyadharshini, Ms. Jothi Aishwarya, Ms. Indhuja, Ms. Vidhya Sri, and Ms. Dhivya Priya of II B. Sc Biotechnology (2024–2027) has participated in the Handloom Fashion organized by the Department of Costume Design & Fashion, VIAAS in association with Kovai Makkal Sevai Mayyam, Coimbatore on 24.07.2025 at Srivasa Mahal Auditorium, RTT Campus, Sankari

TNPSC COACHING AWARENESS PROGRAM (29.07.2025)



The students of I B. Sc Biotechnology has taken part in the TNPSC Coaching Awareness Program held on 29.07.2025. The program was organized by the Department of Mathematics at the venue, Seminar Hall VIAAS

STUDENT INDUCTION PROGRAM

Student Induction Program – Day 1 (01.07.2025)



The student Induction Program was conducted to welcome and orient first-year students towards academic excellence, discipline, and holistic development. The speaker for the Day 1 was our Principal Dr. V. Padmanabhan & Director-IQAC, Dr B.T. Suresh Kumar. They emphasized the importance of quality education, institutional values, and student responsibilities from the beginning. Students felt motivated and understood the vision and expectations of the institution. The program increased awareness about academic planning and personal skill development initiatives among I UG students

STUDENT INDUCTION PROGRAM

Student Induction Program – Day 2 (02.07.2025)



The guest for the Day -2 Student Induction Program was Ms. Kaviya, Founder & CEO, M/s Edhub, Erode. The event focused to provide students with hands-on exposure to real-time industry projects and skill development and to bridge the gap between academic learning and professional expectations. After the program the students gained practical experience and improved their technical and communication skills and increased awareness about career opportunities and industry work culture

STUDENT INDUCTION PROGRAM

Student Induction Program – Day 3 (03.07.2025)



The Day 3 of the Student Induction Program was engaged by Mr. Erode Kathir, Motivational Speaker from Erode. He inspired students through the life experiences and insights shared by Mr. Erode Kathir. He provided clarity on carrier paths and how students can shape their futures with purpose and focus. He equipped the students with tools to handle academic and personal stress effectively. After the program many students reported taking actionable steps towards personal improvement and discipline. Also students learned how to be energetic and passion towards the studies

STUDENT INDUCTION PROGRAM

Student Induction Program – Day 4 (04.07.2025)



The Day 4 of the Student Induction Program was engaged by Ms.Tharani, Co- Founder, M/s Blumdata. Her speech focused to motivate students to build self-confidence and face challenges boldly and to encourage goal setting and a positive attitude towards personal growth. After the event, the students felt inspired to focus on their strengths and ambitions. The program improved enthusiasm and clarity in pursuing academic and life goals for the students.

STUDENT INDUCTION PROGRAM

Student Induction Program – Day 5 (07.07.2025)



The Day 5 of the Student Induction Program was engaged by Dr. S . Balusamy, Director, Vil Green Consultancy, Trainer, Financial Educational Services, Coimbatore. During his speech he focused on to empower students with practical financial knowledge such as savings and investments and motivated and inspired youth to become financially independent and develop a positive attitude toward money management and self-reliance. The program there was an increased awareness and confidence among students in making smart financial decisions and planning for their future. His speech enhanced motivation and goal-setting abilities, leading to improved academic performance and life preparedness through financial discipline.

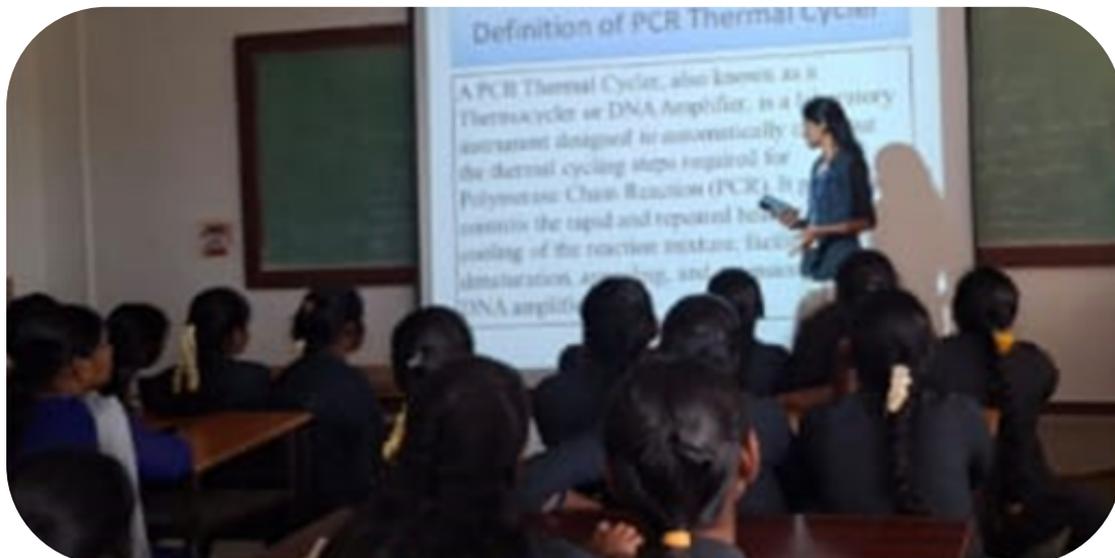
STUDENT INDUCTION PROGRAM

Student Induction Program – Day 6 (08.07.2025)



The Day 6 of the Student Induction Program was engaged by Mr. R. S. Prabhu, Motivational Speaker, Erode. He Encouraged the students to develop self-confidence, self- discipline and strong in their education. He also provided guidance on handling stress, fear, and pressure during the course of academics and jobs. He narrated the concepts through short stories and interesting real life experiences. After the program, the students felt energized and determined to work towards their goals. The Students gained clarity about academic and career goal.

Day - 1 : Bioinstrumentation – PCR Technology



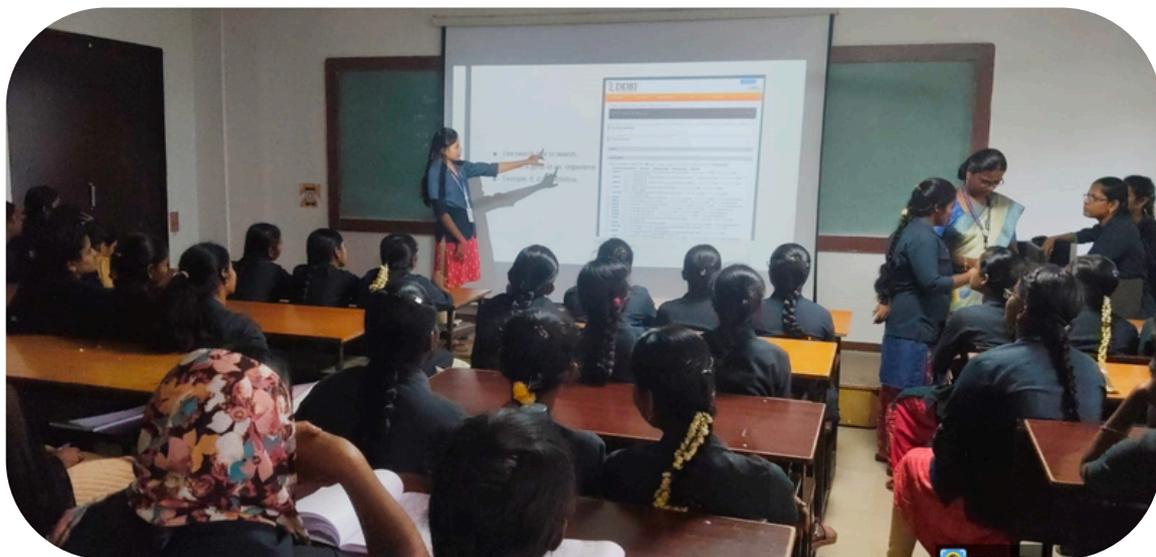
A Student development program was conducted in the topic Bioinstrumentation – PCR technology on 23.07.2025. A presentation was given by III B. Sc Biotechnology students (12 members) on various aspects of PCR thereby imparting a complete principle, techniques and applications of PCR at Smart Class room. About 35 students from I B.Sc Biotechnology had participated in the event.

Day - 2 : Expert Lecture session: AI in Medical Coding



A expert lecture session was conducted as the part of Day 2 event of Student Development Program on 25.07.2025. The session was delivered by Mr. Hari Ragavendran, ECG analyst, CHC Health Care, Chennai. He has delivered the use of AI in Medical coding and awareness about opportunities for biotech student in health care industries. The program was held at Smart Class room and 35 students had participated.

Day - 3 : Bioinformatics: Tools & Tech.



The Day 3 session of the student development program was conducted in the Smart class room on 29.07.2025 in which presentation on Bioinformatics; Tools & Techniques were given as a demonstrative session with PPT slide show. About 6 students of II B. Sc Biotechnology has presented on various Bioinformatics tools and techniques. About 35 students of I B. Sc Biotechnology had participated in the event

Day - 4 : Model Presentation



A Model Presentation was done by I B. Sc Biotechnology students on 30.07.2025 under the theme Anatomy & Physiology of Cells. The event was held at PG Biotech lab with 35 participants presenting 16 models on different concepts of Cell Biology. All the students of Biotechnology visited the presentation and gained knowledge on the topic.

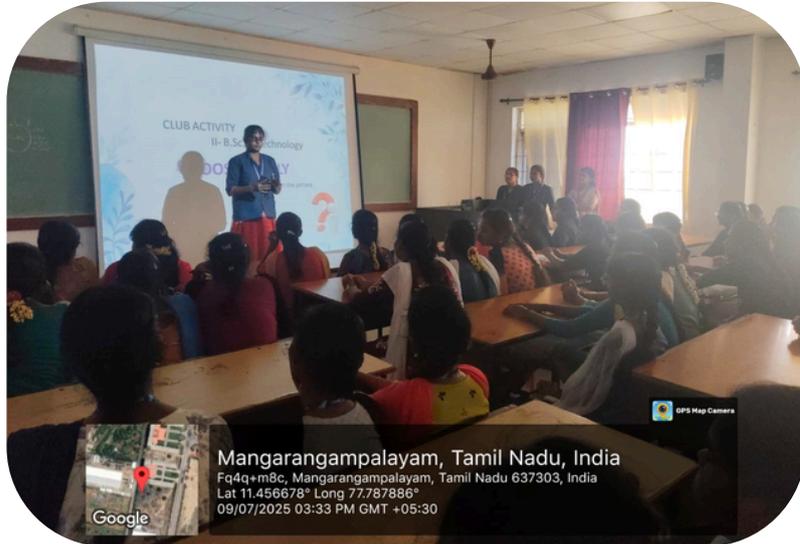
Day - 5 : Current Trends in Biotechnology



The students of I B. Sc Biotechnology had participated in the E-Poster presentation organized by the III B. Sc Biotechnology on the topic - 'Recent Inventions & Discoveries in the field of Biotechnology'. The event was conducted at Smart Class room on 31.07.2025. The program gave an insight and awareness on different findings took place in the recent days in the field of Biotechnology

A STRONG BUZZ

Students Activities



Drug Awareness Program (9.7.2025)

Quiz & Connection games based on Biological concepts & identifying scientist was conducted for the UG students of Biotechnology. I B.Sc Biotechnology students participated in the event conducted at Smart Class room. About 33 students participated in the event.

Youth Skill Day (16.7.2025) II UG

The international youth skill day was celebrated with a program to explore the hidden skills of our young minds. Mehandi competition, speech on diet & technology, poetry and spot drawing competition, origami or paper craft, singing events was conducted at Smart Class. About 30 students of I B. Sc Biotech expressed their talent during the program in various events.



FOOT PRINTS

Body Map Challenge (10.07.2025)

An activity was conducted for the I & III year B. Sc Biotechnology students - Body map challenge - Decoding the human organs from the picture. The event enhances the students understanding on Human Anatomy & Physiology which is vital for medical coding job. About 65 students participated in the event.

World Population Day (11.07.2025)

An awareness program was conducted on the World Population Day for the I & III B.Sc Biotechnology students. A quiz event was organized to impart the knowledge on the population, culture, economic status and productivity of the different nations around the world. About 35 students of I B. Sc Biotechnology participated in the event conducted at Smart class room.

Alzheimer's Awareness (15.07.2025)

An Alzheimer's awareness program was conducted on the occasion of the World Alzheimer's Day. The event included the pledge by students, a discussion forum on the causes, prevention, treatment and research strategies on Alzheimer's disease. All the I, II & III B.Sc Biotechnology students taken part in the event held at Smart Class room.

Pixel Quiz (11.07.2025)

An event was organized for the students of II B. Sc Biotechnology named Pixel Quiz with the theme of identification of instruments pictures used in Biological Sciences. This fun based subject quiz created an awareness on Bioinstrumentation for the 32 participants of the event conducted at Smart class room.

TNPSC Overview & Recap (14.07.2025)

A TNPSC awareness program was organized for the I & II B. Sc Biotechnology students at the smart class room. The objective of the event is to recap and overview the currently completed TNPSC Group IV exam question paper. The students were vibrant to answer and discuss the questions.

Current Affairs (22.07.2025)

A discussion forum on current affairs in India and a short quiz on current affairs was conducted for II B. Sc Biotechnology students for enhancing their answering skills in competitive examination. About 35 students of I B. Sc Biotechnology students participated in the event.



VIVEKANANDHA EDUCATIONAL INSTITUTIONS

TIRUCHENGODE CAMPUS

Swamy Vivekanandha Medical College Hospital and Research Institute
Vivekanandha Dental College for Women
Swamy Vivekanandha College of Pharmacy
Vivekanandha College of Nursing
Vivekanandha School of ANM
Swamy Vivekanandha Physiotherapy College
Vivekanandha Allied Health Science (Co- Ed)
Krishna Institute of Optometry & Research
Vivekanandha Institute of Health Science & Research (Boys)
Krishna Institute of Health Science (Boys)
Vivekanandha College of Engineering for Women (Autonomous)
Vivekanandha College of Technology for Women
Vivekanandha Institute of Information and Management Studies
Vivekanandha College of Arts & Sciences for Women (Autonomous)
Vivekanandha College for Women
Vivekanandha College of Education for Women
Krishna College of Education For Women
Krishnasree College of Education For Women
Vivekanandha Vidhya Bhavan Matric Higher Secondary School
Vivekanandha Medical Care Hospital (VMCH)

SANKARI CAMPUS

Swamy Vivekanandha Naturopathy and Yoga Medical College
Vivekanandha Pharmacy College for Women
Vivekanandha Nursing College for Women
Vivekanandha Arts & Science College for Women
Vivekanandha ANM School
Rabindranath Tagore College of Education for Women
Viswabharathi College of Education for Women

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