



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. KARUNANITHI
B.Pharm., M.S., Ph.D., D.Litt.,
CHAIRMAN & SECRETARY

JUNE & JULY 2025

NEWSLETTER



PG & RESEARCH DEPARTMENT OF MICROBIOLOGY

Microbes rule the world.....
Microbiologists rule the microbes....
We are proud to be Microbiologists....

■ **The Microbial Mind** Exploring Invisible Talents

Intellectual arrogance starts here.....

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Dear students, it is with great pleasure that I welcome you to the Department of Microbiology. Microbiology plays a crucial role in understanding and combating infectious diseases, and our department is dedicated to providing you with a strong foundation in this vital field. We aim to foster a passion for learning, critical thinking, and ethical conduct, preparing you for successful careers in research, healthcare, and industry. Our faculty are committed to your success, and we offer a supportive environment for your academic and personal growth. We encourage you to embrace the opportunities available in our department and to contribute to the advancement of Microbiology."



**Prof. Dr. M. Karunanithi,
B.Pharm., M.S., Ph.D., D.Litt.,
Chairman & Secretary
Vivekanandha Educational
Institutions & Hospitals**



**Dr.V.Padmanabhan,
M.Com.,M.Com(CA),MBA.,Ph.D.,NET
Principal,
VIAAS**

I proudly acknowledge the Department of Microbiology commitment to excellence, and the opportunities available to students. It might highlight the Department's focus on both theoretical knowledge and practical skills, as well as its role in preparing students for careers in research, healthcare, and biotechnology. The message could also touch upon the department's contribution to the college's overall mission and its dedication to fostering a positive learning environment.

**From decay to cure, microbes play their part;
In life's grand puzzle, they're the smartest art**



Microbiology department would likely emphasize its focus on the study of microorganisms and their impact on various fields, including medicine, food safety, and environmental science. The department likely strives to provide a strong foundation in microbiological principles and techniques, offering both undergraduate and postgraduate programs. Furthermore, the department likely encourages hands-on experience in well-equipped laboratories and promotes research in areas like agriculture microbiology, marine microbiology, algal biotechnology immunology, and environmental microbiology.



Dr. B. T. Sureshkumar
IQAC-Director
VIAAS



Dr. R. Mythili
Assistant Professor & Head
Department of Microbiology
VIAAS

A newsletter inspires and motivates students and staff alike, for it reminds them of the zeal that they once had to do something extraordinary. It gives me immense pleasure to note that the Newsletter of the Microbiology Department of VIAAS is being released. Kudos to the editorial team. The newsletter being rolled out today marks the launch of an effervescent activity that will enable the Management to showcase the academic achievements of our prestigious institution to the competitive world. I am overwhelmed by the response that we received from the coordinators, Heads of faculty members of the Microbiology Department, in making this newsletter possible. I hope this number will grow in the upcoming years.

Seen through a lens, their secrets unfold
Microbes are stories waiting to be told

ABOUT THE DEPARTMENT



The Department of Microbiology, established in 2004, aims to provide quality education in Microbiology through undergraduate, postgraduate, and research programs. It fosters a strong academic and research environment with hands-on training to prepare students for successful careers. The Department is equipped with modern infrastructure and advanced analytical tools, giving students practical experience with current technologies. To support intellectual growth, it organizes brainstorming activities that help students showcase their talents and build essential soft skills. The Department's vision is to empower women through science education and build strong connections between academia and industry, enhancing leadership and job opportunities for students. Its mission is to deliver in-depth knowledge and training in Microbiology while offering research opportunities. The Department has completed numerous nationally and internationally funded projects, with ongoing and submitted proposals to prestigious agencies like DBT, DST, UGC, ICAR, and MoES. These efforts highlight its dedication to advancing Microbiology research. The Department actively contributes to society, particularly in applied areas like agriculture and aquaculture. Through innovation and collaboration, it continues to impact the scientific community and promote the growth of Microbiology as a field of study and practice.



PG & Research Department of Microbiology

God and Microbes both are invisible, have the potential to rule the world

PG & RESEARCH DEPARTMENT OF MICROBIOLOGY



“In the world of microbes, small things can have a big impact.”



VISION

To emerge as a globally recognized center of excellence in Microbiology by driving groundbreaking discoveries, innovative solutions, and transformative education. We aim to nurture future-ready leaders who can significantly impact public health and environmental sustainability on a global scale.



MISSION

The mission of the Department is to provide transformative education and hands-on training that cultivates intellectual growth and lifelong learning. It aims to advance Microbiology through innovative research and collaborations addressing global challenges. The Department empowers students to become socially responsible, globally competent professionals who contribute meaningfully to academia, industry, and society.

Microbes are the silent warriors; these tiniest beings possess the strength to spark a revolution that can have monumental impacts in the world of science.

MICROBIOLOGY TEAM MEMBERS

VIAAS MICROBIOME



Dr.R.Mythili
Assistant Professor & Head
Specialization: Environmental &
Agricultural Microbiology



Dr.V.Bharathi
Assistant Professor
Specialization: Molecular
Biology & Virology



Dr.R.Dineshkumar
Assistant Professor
Specialization: Algal
Biotechnology & Marine
Valorization



Mr.R.Pandiyan
Assistant Professor
Specialization: Molecular
Biology & Genetics



Ms.S.Kousalya
Assitant Professor
Specialization :Seaweed
Biotechnology



Ms.Soniya Sree
Tutor
Specialization: Soil
Microbiology & Phycology



Dr.A.Mohana Priya
Assistant Professor
Specialization: American
Literture & Disability Studies

SUPPORTING STAFFS



Ms.S.Swetha
Lab Assistant



Ms. P.Ramya
Lab Assistant

Faculty Achievements



Excellence is not an act but a habit – our faculty's achievements reflect a legacy of passion and purpose.

Dr. R. Mythili, Assistant Professor & Head

*Reviewer in Discover Agriculture
Springer Nature Journal*



Published an article entitled “Optimization of polysaccharide extraction from Mangifera indica using response surface methodology and evaluation of its antioxidant activity” was published in June 2025

Published an article entitled “Influence of Algal Biomass Chemical Composition on Hydrothermal Liquefaction Efficiency and Its Implications for A549 Cell Line Cytotoxicity in June 2025



Dr. R. Dineshkumar
Assistant Professor

Journal reviewer in Bioresource Technology (Elsevier Impact factor 8.5), Algal resection (Elsevier Impact factor 4.5) and Biomass conversion and refinery (Springer impact factor 4.1)

Doctoral Committee member for Saveetha medical College and hospital, Chennai and Bharathidasan University, Tiruchirappalli

"Empowered minds achieve beyond limits – our faculty's dedication turns vision into innovation."



Mohana Priya A
Assistant Professor

FDP attended the Two-Day SCRI Young Scholars Conference 2025 on the theme “Emerging Trends and Perspectives in Contemporary Research” organized by the Scientific and Critical Research Institute, Kolkata, India, held on 28th and 29th June 2025.

The One Day FDP on “New Teaching Methodologies organized by Institution Innovation Council, Entrepreneurship Development Cell, in association with Oliva International Publications, Sanketika Vidya Parishad Engineering College, Vishakhapatnam, held on 19th July 2025.

Resource Person For World Hepatitis Day organized by the Department of Nutrition and Dietetics, VIAAS on 28th July 2025



Dr. V. Bharathi
Assistant Professor



Ms. S. Kousalya
Assistant Professor

FDP attended the Six-Day FDP on “Microsoft Digital Skills” organized by Periyar University, Tamilnadu, India, held on 23.06.2025- 28.07.2025.



MoU was signed between VIAAS Microbiology Department and Biofocus Scientific Solutions, Kumbakonam for Research, Projects & Internships

MOU SIGNING CEREMONY

17-07-2025



RESEARCH



INTERNSHIPS



PROJECTS



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"Stay inspired. Never stop creating."

CONSULTANCY PROJECT



EXPLORE THE HIDDEN WORLD.....



The Consultancy Project signed between VIAAS Microbiology Department and Biofocus Scientific Solutions, Kumbakonam for for the cost of 1 lakh on " Seagrass derived Fungicidal compound against Red Rot Disease "



RESEARCH THE ONLY MEDIA TO THINK.....

17-07-2025

*Invisible yet powerful, microbes rule the world unseen;
From soil to sea, their wonders intervene*



EDP

Innovate Green, Live Clean.



ENTREPRENEUR DEVELOPMENT PROGRAMME

Giving ENTREPRENEUR Community

Empower young minds

This partnership paves the way for hands-on training, research, and startup incubation in the field of algal bioproducts, supporting innovation and economic growth through green biotechnology.

Impact of the Programme

Develop entrepreneur

Create benefits to society

Empower women minds

Hosting Community Clean-Up Drives

Biosustainability

Encouraging Sustainable Commuting



DEVELOPMENT OF BIOECO WOMEN ENTREPRENEUR

PG& RESEARCH DEPARTMENT OF MICROBIOLOGY >>>

CLUB ACTIVITIES

Invisible Talents



Through these activities, students demonstrated their commitment to public health education and reinforced the role of young minds in building a hepatitis-free future.



WORLD HEPATITIS DAY

“Breaking barriers, saving lives: unite for access to hepatitis testing and care.”



The Department of Microbiology observed World Hepatitis Day on 28th July 2025 to raise awareness about viral hepatitis and its global impact. Aligned with this year’s theme, “Hepatitis: Let’s Break It Down”, the event emphasized the importance of breaking social, financial, and systemic barriers to hepatitis prevention and care.

Microbiology students actively participated by organizing awareness talks, poster presentations, and interactive sessions highlighting the need for early detection, vaccination, and treatment. The program aimed to educate peers and the community on the importance of liver health and eliminating the stigma surrounding hepatitis.



“Join the global mission to end hepatitis – remove stigma, scale up awareness.”

INTERNATIONAL WORKSHOP



ELEVATING YOUNG MINDS WITH INTELLECTUALS

24.07.2025

Dr. Ponmurugan, a renowned expert in microbial technology and industrial biotechnology, delivered an insightful keynote address, emphasizing the latest global innovations in algal bioproduct development, environmental sustainability, and microbial applications in healthcare and industry.

**DISCOVER
NOVEL
MICROBES.....**

IMPACT.....

Know about the emerging role of metagenomics in research

Learn about the role of metagenomics in health, the environment, and agriculture
Gain hands-on experience in microbial data collection and analysis

SESSION I



METAGENOMICS

His presentation inspired students and researchers alike to explore entrepreneurial opportunities in microbial biotechnology. The workshop included interactive sessions, hands-on demonstrations, and discussions on cutting-edge research in the field. Participants from various institutions benefited from this enriching academic exchange.

SESSION II



CONS AND PROS OF MICROORGANISMS

Activity I

Research Minds Budding Here.....

RESEARCH & DEVELOPMENT PROGRAMME



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DEPARTMENT OF MICROBIOLOGY

Nobel Laurate Innovators Hub

RESEARCH & DEVELOPMENT PROGRAM

Today's Presenters

Team leader	Team leader
<p>Ms.R.Ramya II-M.Sc Microbiology Cons of microorganisms</p> <p>Ms.M.Nandhini Ms.A.Ethiyaprabha Ms.D.Dhivyaa dharshini Ms.S.Ramya Ms.K.R.Amja Ms.T.Srinandhini Ms.M.Nandhini Ms.B.Yashika Ms.L.Priyadarshini</p>	<p>Ms.R.Aiswarya III-B.Sc microbiology Pros of microorganisms</p> <p>Ms.S.Gabika Ms.V.Saranya Ms.S.Kanishka Ms.R.Dhanini Ms.A.priyadarshini Ms.F.Hemalatha Ms.R.Sridharshini Ms.V.Saranya Ms.N.Dharani</p>

Debate between

100-400 PSI | June 20 2025 | Microbiology lab

Dr.R.Dhoshkumar Ph.D., Dr.R.Mythili Ph.D., Dr.B.T.Sureshkumar Ph.D., Dr.V.Padmanabhan Ph.D.,
COORDINATOR HOD DIRECTOR-IQAC PRINCIPAL

All are Cordially Invited!!!
Let's Celebrate the Wonders of Research



Nobel Laurate Innovator Hub.....

20.06.2025

Ms. R. Ramya (II M.Sc. Microbiology Student) and Ms. R. Aiswarya (III B.Sc. Microbiology Student) played the role of team leaders in the debate on the title “Cons and Pros of Microorganisms” held on 20th June 2025 in PG Microbiology Lab.

Outcomes

- Ø Helps students understand how microorganisms work in both helpful and harmful ways.
 - Ø Forms a base for subjects like biology, biotechnology, and medicine.
 - Ø Knowing harmful microbes, students learn the importance of cleanliness, food safety, and vaccination.
- Awareness of good microbes leads to eco-safe methods like organic composting, biopesticides, and waste management.



Advanced Sequencing Technologies

Activity 2

Research Minds Budding Here.....

RESEARCH & DEVELOPMENT PROGRAMME



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DEPARTMENT OF MICROBIOLOGY

Nobel Laureate Innovators Hub

RESEARCH & DEVELOPMENT PROGRAM

Today's Presenters


 Ms. R. Ramya
 B.M.Sc. Microbiology
 Council of Scientific & Industrial Research


 Ms. R. Keerthana
 B.M.Sc. Microbiology
 Advanced Sequencing technologies


 Ms. M. Nandhini
 B.M.Sc. Microbiology
 Indian Institutes of Technology

3:00-4:00 PM | June 27, 2025 | Microbiology Lab

Dr. R. Divyakumar Ph.D., COORDINATOR | Dr. R. Sridhar Ph.D., B.Ed. | Dr. R. T. Sarobkumar Ph.D., DIRECTOR IQAC | Dr. V. Palanisubraman Ph.D., PRINCIPAL

All are Cordially Invited!!!
Let's Celebrate the Wonders of Research



Nobel Laureate Innovator Hub.....

27.06.2025

Ms. R. Ramya (II M.Sc. Microbiology Student) and Ms. R. Keerthana (II M.Sc. Microbiology Student) played the role of team leaders in the debate on the title “Advanced sequencing Technologies” held on 27th June 2025 in PG Microbiology Lab.

Outcomes

- Ø Helps students understand how microorganisms work in both helpful and harmful ways.
 - Ø Forms a base for subjects like biology, biotechnology, and medicine.
 - Ø Knowing harmful microbes, students learn the importance of cleanliness, food safety, and vaccination.
- Awareness of good microbes leads to eco-safe methods like organic composting, biopesticides, and waste management.



Indian Council for Agricultural Research
Institute of Indian Technology
CSPI-3

Activity 4

Research Minds Budding Here.....

RESEARCH & DEVELOPMENT
PROGRAMME



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DEPARTMENT OF MICROBIOLOGY

Nobel Laureate Innovators Hub

RESEARCH & DEVELOPMENT PROGRAM

Today's Presenters



Ms. D.Dharshini
II M.Sc. Microbiology
Indian Institute of Agricultural Research (IIAR)



Ms. T.Srinandhini
II M.Sc. Microbiology
Indian Institute of Technology (IIT)



Ms. S.Kanishka
III B.Sc. Microbiology
CSPI-3

7:00-8:30 PM July 11, 2025 Microbiology Lab

Dr. R.Dharmalingam Ph.D., Co-ordinator Dr. B.Ashitha Ph.D., IAS Dr. R.V. Suresh Kumar Ph.D., Director IQAC Dr. V. Palaniselvan Ph.D., Principal

All are Cordially Invited!!!
Let's Celebrate the Wonders of Research



Nobel Laureate Innovator Hub.....

11.07.2025

Ms. D.Dharshini (II M.Sc. Microbiology) and Ms. Srinandhini (II M.Sc. Microbiology), & Ms. S. Kanishka (III B.Sc. Microbiology) played the role of team leaders in the debate on the title Indian Council for Agricultural Research, INDIAN INSTITUTES OF TECHNOLOGY (IIT) & CSPI- 3 held on 11th July 2025 in PG Microbiology Lab.

Outcomes

Students will be able to articulate the vision, mission, and research framework of ICAR and IITs, and their contribution to India's scientific and agricultural advancement.

Students will gain knowledge of flagship research initiatives, model projects, and technological innovations such as climate-resilient crops (ICAR) and rural technology solutions (IITs).



Genetic Markers, Red rot of Sugarcane & Polymerase Chain Reaction

Activity 4

Research Minds Budding Here.....

RESEARCH & DEVELOPMENT PROGRAMME



SANKAGIRI VIVEKANANDHA ARTS AND SCIENCE COLLEGE FOR WOMEN
VEERACHIPALAYAM, SANKAGIRI, SALEM

PG & Research Department of Microbiology

"NOBEL LAURATE INNOVATORS HUB"

Research & Development Program

Today's Presenters

 Ms. N. Abirami II M.Sc Microbiology Genetic Markers	 Ms. S. Anisha III B.Sc Microbiology Red Rot of Sugarcane
 Ms. S. Jeevitha II M.Sc Microbiology Polymerase Chain Reaction	

📅 25.07.2025 | Friday ⌚ 03:00 PM - 04.00 PM
📍 PG Microbiology Lab

ORGANIZES BY

Dr. R. Dineshkumar R&D Co-Ordinator	Dr. R. Mythili HoD
Dr. B. T. Sureshkumar Director - IQAC, VIAAS	Dr. V. Padmanabhan Principal, VIAAS



Nobel Laureate Innovator Hub.....

25.07.2025

Ms. N. Abirami (II M.Sc. Microbiology Student), Ms. S. Anisha (III B.Sc. Microbiology Student) & Ms. S. Jeevitha (II M.Sc. Microbiology Student) played the role of team leaders in the debate on the title Genetic Markers, Red Rot of Sugarcane, and Polymerase Chain Reaction

held on 25th July 2025 in PG Microbiology Lab.

Outcomes

- Students demonstrated leadership and subject knowledge by effectively coordinating the debate on advanced microbiological topics.
- The event enhanced critical thinking, communication skills, and collaborative learning among participants.

STUDENT'S DEVELOPMENT PROGRAMME



Activity 1

UNDERSTANDING TYPHOID: FROM CAUSES TO CLINICAL MANAGEMENT



Outcomes

Gain knowledge of diagnostic techniques, treatment protocols, and preventive measures.

Appreciate the importance of public health awareness in controlling typhoid outbreaks.

Develop critical thinking skills for the clinical management of infectious diseases through case-based discussions

STUDENT'S DEVELOPMENT PROGRAMME
29.07.2025



RANK HOLDERS



Ms. Deena J
5th Rank
(2018-2021)



Ms. Priyadharshini
6th Rank
(2018-2021)



Ms. Ismath Siffara S
9th Rank
(2018-2021)



Ms. Ajmal Rizwana
10th Rank
(2018-2021)



Ms. R. Mathumathi
3rd Rank
(2023-2024)



Ms. Ismath Siffara S
4th Rank
(2023-2024)



Ms. S. Divya Bharathi
5th Rank
(2023-2024)



Ms. P. Vijaya Prabha
8th Rank
(2023-2024)



*Microorganisms....
Macroblessings.....*



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 COLLEGE (Co-Ed)
- ★ KRISHNA INSTITUTE OF OPTOMETRY AND RESEARCH
- ★ VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN (AUTONOMOUS)
- ★ VIVEKANANDHA COLLEGE OF TECHNOLOGY FOR WOMEN
- ★ VIVEKANANDHA INSTITUTE OF INFORMATION AND MANAGEMENT STUDIES
- ★ VIVEKANANDHA COLLEGE OF ARTS AND SCIENCES FOR WOMEN (AUTONOMOUS)
- ★ VIVEKANANDHA COLLEGE FOR WOMEN
- ★ VIVEKANANDHA COLLEGE OF EDUCATION FOR WOMEN
- ★ KRISHNA COLLEGE OF EDUCATION FOR WOMEN
- ★ KRISHNASHREE COLLEGE OF EDUCATION FOR WOMEN
- ★ VIVEKANANDHA VIDHYA BHAVAN MATRIC HIGHER SECONDARY SCHOOL
- ★ VIVEKANANDHA MEDICAL CARE HOSPITAL (VMCH)

SANKAGIRI CAMPUS

- ★ SWAMY VIVEKANANDHA NATUROPATHY AND YOGA MEDICAL COLLEGE (Co-Ed)
- ★ VIVEKANANDHA PHARMACY COLLEGE FOR WOMEN
- ★ VIVEKANANDHA NURSING COLLEGE FOR WOMEN
- ★ VIVEKANANDHA ANM SCHOOL
- ★ VIVEKANANDHA ARTS AND SCIENCE COLLEGE FOR WOMEN
- ★ RABINDHARANATH TAGORE COLLEGE OF EDUCATION FOR WOMEN
- ★ VISWABHARATHI COLLEGE OF EDUCATION FOR WOMEN

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