



**SWAMI VIVEKANANDA UNIVERSITY,
BARRACKPORE**

**SCHOOL OF
LIFE SCIENCES**

**DEPARTMENT
OF
MICROBIOLOGY**

**JUNE- NOVEMBER
NEWSLETTER
2024**



SWAMI VIVEKANANDA UNIVERSITY,
BARRACKPORE

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SWAMI VIVEKANANDA UNIVERSITY,
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ABOUT THE DEPARTMENT

Department of Microbiology under the School of Life Sciences, Swami Vivekananda University aims in serving bunch of aspirants heading towards excellence, just in need of a perfect platform to redefine themselves. The department hosts a high bucket of Postgraduate students, Bachelor's students and also PhD scholars, along with academic staff, including newly independent researchers.

Aiming at sailing high, the department offers a high specialized lab infrastructure comprising of 4 laboratories on Microbiology, Molecular Biology & Biochemistry, Plant Biotechnology, Bio-engineering.

The library comes with a head set of rich informed books on relevant fields, serving an all-time space for the students to explore what's new and emerging. The perfect blend of theory with practical knowledge occurs with the provision of classes in spacious classrooms along with well-equipped labs. It gives the students a much-needed environment to experience learning, grooming as well as placement in reputed industries, with a high noted exposure of internships, hands on trainings and industry visits.

MISSION

Our mission is to keep the department regarded as an example to any, in terms of its relevance of all areas, including teaching and research, quality of facilities and support, and learning opportunities and working experience.



SWAMI VIVEKANANDA UNIVERSITY,
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VISION

The Microbiology Department at Swami Vivekananda University envisions itself as a globally recognized center of excellence in microbiological sciences, where academic brilliance and innovative research converge. Our vision is anchored in a commitment to providing students with a transformative educational experience, instilling in them a profound curiosity, critical thinking skills, and a fervor for exploration. We aspire to lead pioneering research initiatives that address global challenges and contribute to societal betterment. Through interdisciplinary collaborations, both within the university and beyond, we seek to create synergies that drive transformative research. Our student-centric approach prioritizes holistic development, ensuring that graduates are equipped not only with comprehensive theoretical and practical knowledge but also essential skills, ethical values, and a global perspective. By continuously upgrading state-of-the-art facilities, fostering community engagement, and promoting leadership in industry, we aim to achieve global recognition as a hub for microbiological excellence. Through a commitment to continuous improvement and a dynamic curriculum, we envision shaping a future where the Microbiology Department plays a pivotal role in influencing the trajectory of microbiological sciences worldwide, inspiring generations of scientists and researchers.



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OBJECTIVE

1. **Academic Excellence:** Deliver high-quality education and training at various academic levels.
2. **Cutting-Edge Research:** Cultivate a culture of innovative and impactful research in microbiological sciences. **State-of-the-Art Facilities:** Maintain and upgrade specialized laboratories for practical learning experiences.
3. **Interdisciplinary Collaboration:** Foster collaborations with other departments, research institutions, and industries.
4. **Holistic Learning:** Integrate theoretical knowledge with hands-on practical experiences.
5. **Library Resources:** Maintain a comprehensive library with a rich collection of microbiology-related resources.
6. **Industry Exposure:** Facilitate internships, hands-on training, and industry visits for real-world applications.
7. **Ethical Practices:** Instill a strong sense of ethical conduct and responsibility in research and professional practices.
8. **Global Perspective:** Prepare students for success in a diverse and interconnected professional landscape.
9. **Community Engagement:** Engage with the community through outreach programs and collaborative initiatives.
10. **Continuous Improvement:** Adapt to evolving trends and challenges in microbiology, maintaining a dynamic curriculum.



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PROGRESS REPORT

JUNE- 2024

Student Skill Development Workshop - Molecular Ecology and Molecular Farming - 6th June

On June 6th, the Departments of Microbiology and Biotechnology at Swami Vivekananda University, School of Life Sciences, hosted a series of Student Skill Development Workshops, reflecting the vision of Shri Saurabh Adhikari, Chief Operating Officer of Swami Vivekananda University. These workshops were designed to enhance technical expertise and extend the university's influence by attracting external students.





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PROGRESS REPORT

JUNE- 2024

Student Skill Development Workshop -Nano-Biotechnology & Fourier Transform Infrared (FTIR) Spectroscopy, 19th June

The workshop concluded on June 19th with a hands-on session focused on Nano-Biotechnology & Fourier Transform Infrared (FTIR) Spectroscopy, led by Dr. Sabyasachi Ghosh and Dr. Priyankar Pal, Assistant Professors in the Department of Biotechnology and Microbiology respectively at the School of Life Sciences, Swami Vivekananda University. Nano-Biotechnology and FTIR Spectroscopy have become indispensable tools in research, highlighting their crucial role in scientific advancements. The workshop was meticulously designed to impart practical skills necessary for participants' research endeavors and to inspire a passion for scientific exploration among external students from various colleges and universities.

Participants in the workshop benefitted from immersive hands-on experiences guided by seasoned mentors, gaining valuable insights into the applications and methodologies of Nano-Biotechnology & FTIR Spectroscopy. This experience also left a positive impact on external students across various disciplines, offering them the opportunity to familiarize themselves with high-end instruments for their future endeavors.





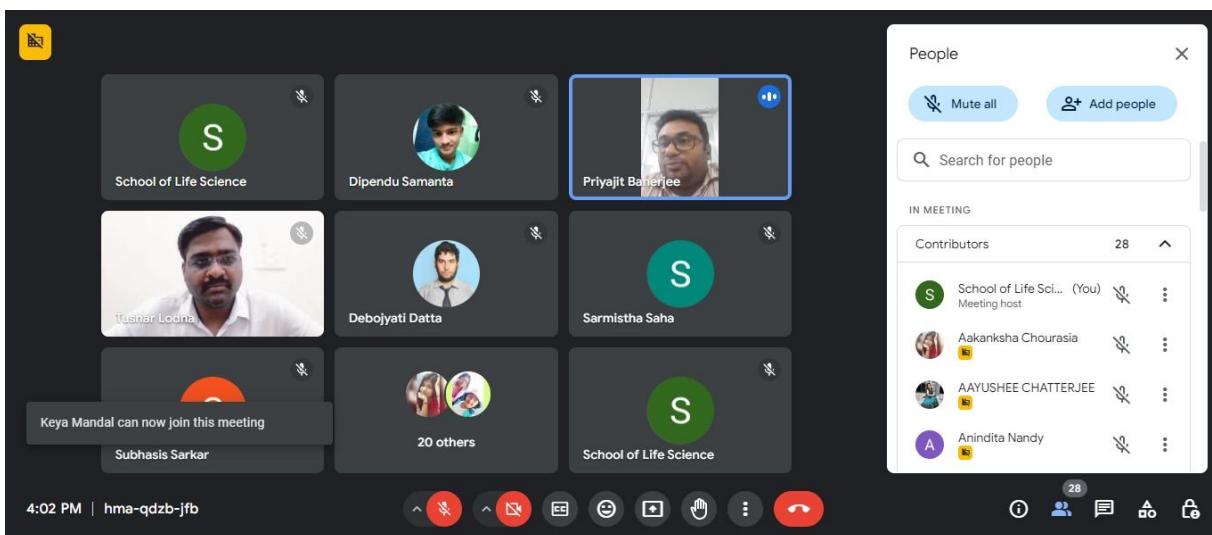
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PROGRESS REPORT

JUNE- 2024

World Environment Day Celebration

The departments of Biotechnology and Microbiology collaborated to host an online celebration of World Earth Day. The event was highlighted by the presence of Dr. Tushar Lodha, Scientist B at Agharkar Research Institute, who served as the esteemed guest speaker. Dr. Lodha captivated the audience with his profound expertise and discussed his pioneering research in environmental sustainability. His presentation not only shed light on current challenges but also inspired students and scholars by emphasizing the importance of innovative solutions in addressing global environmental issues. The online platform facilitated interactive discussions, allowing participants to engage deeply with Dr. Lodha's insights and to explore avenues for future research and action in promoting environmental stewardship.





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PROGRESS REPORT

JUNE- 2024

Industry Visit to SynBiogenesis



Postgraduate students of Biotechnology and Microbiology recently participated in an industrial on-site visit to Synbiogenesis, a multidimensional Biotech Skill Development and R&D hub. The visit aimed to promote high-level basic research among life science students, foster industry-oriented and applied research in biotechnology, facilitate knowledge exchange across scientific disciplines, and ensure the availability of skilled human resources for the Indian biotech industry. Accompanied by Dr. Bidisha Ghosh and Dr. Priyankar Pal, Assistant Professors in the Department of Biotechnology, this initiative provided students with practical insights into cutting-edge biotechnological practices and strengthened their understanding of industry applications in a real-world setting.



SWAMI VIVEKANANDA UNIVERSITY,
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PROGRESS REPORT

JUNE- 2024



SynBiogenesis

Industry Training at SynBiogenesis





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PROGRESS REPORT

JUNE- 2024

School of Life Sciences at Education Excellence -2024

Members of the School of Life Sciences actively participated in Education Interface 2024, commencing from June 15th at Netaji Indoor Stadium, under the esteem leadership of the honorable Chief Operating Officer of Swami Vivekananda University, Hon'ble Shri Saurabh Adhikari sir. The event was graced by distinguished figures including Hon'ble Shri Bratyabrata Basu, the Education Minister of West Bengal; Hon'ble Shri Shovondeb Chattopadhyay, the Minister of Agriculture; Hon'ble Smt. Mala Roy, honorable Member of Lok Sabha, Hon'ble Dr. Suranjana Das, Former Vice Chancellor of University of Calcutta, Hon'ble Mayor and Minister for Urban Development and Municipal Affairs, Shri. Firhad Hakim, Hon'ble Minister of Parliamentary Affairs and Minister of Agriculture, Shri. Sovondeb Chattopadhyay, Minister of Agriculture, West Bengal and Hon'ble Chairperson of Kolkata Municipal Corporation (KMC) and Member of Parliament for Kolkata (South) were among the distinguished dignitaries who graced the occasion. Additional notable figures included Manashi Roychowdhury, Co-Chairman of Techno India Group, and Sardar Taranjit Singh, Managing Director of JIS Group, Dipak Sinha Roy, Founder of Career Planner Edu Fair, Prof. Subrata Kumar Dey, honorable Vice Chancellor of Swami Vivekananda University and Prof. Deb Narayan Bandyopadhyay, Chief Executive Director (Academics), Swami Vivekananda University.



SWAMI VIVEKANANDA UNIVERSITY,
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PROGRESS REPORT

JUNE- 2024

School of Life Sciences at Education Excellence 2024



This initiative sought to democratize access to educational opportunities and information, empowering aspiring learners and their families to navigate the diverse educational landscape seamlessly. Education Interface 2024, orchestrated under the leadership of Shri. Saurabh Adhikari, the esteemed Chief Operating Officer of Swami Vivekananda University, convened students, graduates, and industry leaders in a cohesive platform. The event facilitated meaningful exchanges with business leaders and academic experts, offering crucial insights for participants in their professional journeys. With support from government officials and educational stakeholders, this inaugural event represented a significant stride in India's career education sector, poised to shape nationwide career development trajectories.

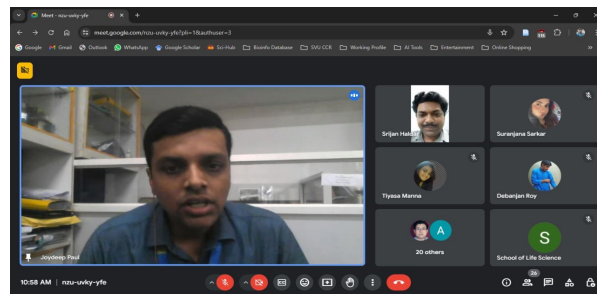
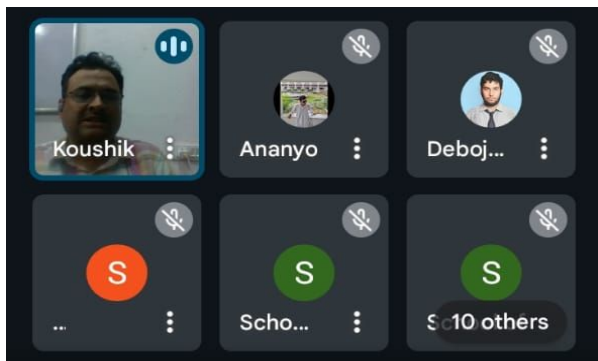
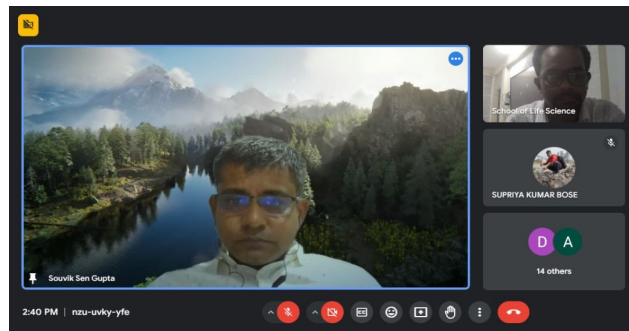


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PROGRESS REPORT

JUNE- 2024

2nd International Conference on Scientific Advances in Life Sciences, Agriculture and Food & Nutrition ICSA 2024



ICSA-2024, WAS held on June 20-21, 2024, at the university campus, featured an inspiring opening by Prof. Sankar Kumar Ghosh, Former Vice Chancellor of Kalyani University. Expert lectures by Dr. Souvik Sengupta, Dr. Koushik Mukherjee, Dr. Joydeep Paul, and Dr. Ishita Rehman enriched the sessions. Students also presented research papers during technical sessions, making the event a valuable experience for all participants. The ICSA-2024 was a resounding success, featuring approximately 15 paper submissions from students. The event also included engaging student presentations, along with insightful online and offline talks delivered by expert guest speakers.



SWAMI VIVEKANANDA UNIVERSITY,
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PROGRESS REPORT

JUNE- 2024

World Microbiome Day Celebration



The departments of Microbiology and Biotechnology, School of Life Sciences, Swami Vivekananda University, Barrackpore, proudly hosted the **World Microbiome Day 2024** celebration. The event featured an insightful session by the distinguished speaker, **Dr. Piya Ghosh**, Lecturer at Lady Brabourne College, Kolkata.

Dr. Ghosh delivered an engaging and thought-provoking lecture, captivating the audience with her expertise in microbiome research. The session was followed by an impressive series of presentations by students, showcasing their knowledge and innovative ideas on microbiome-related topics.

The event highlighted the importance of microbiomes in various ecosystems and emphasized the role of young researchers in advancing this vital field.



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PROGRESS REPORT

JUNE- 2024

One Day seminar on *Plasmodium falciparum*



The Departments of Microbiology and Biotechnology, under the School of Life Sciences at Swami Vivekananda University, Barrackpore, successfully organized a One-Day Seminar on 28th June 2024, at the university campus. The event was graced by the Chief Guest, Prof. Suman Kumar Dhar, Vice Chancellor of TERI School of Advanced Studies. Prof. Dhar delivered an enlightening talk on "The Human Malarial Parasite *Plasmodium falciparum*: Unique Biology and Possible Interventions." His address shed light on the distinctive biological features of *Plasmodium falciparum* and the innovative strategies being explored for combating malaria. The seminar provided an excellent platform for knowledge exchange, inspiring students and faculty alike to delve deeper into the realms of microbiology and biotechnology.



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PROGRESS REPORT

JULY - 2024

One Day Industrial Visit

The final-year postgraduate students of the Departments of Microbiology and Biotechnology at the School of Life Sciences, Swami Vivekananda University, undertook a one-day industrial visit to Bhagwati Food Park, Parle Food Bhagwati Foods Pvt. Ltd. - Parle.

The visit was organized to offer students direct exposure to industry operations and practical applications of their academic knowledge. This experience aimed to deepen their understanding of real-world practices and equip them with the skills necessary to excel in future career opportunities.





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PROGRESS REPORT

JULY - 2024

Fresher's Induction Programme

The induction program for the newly enrolled undergraduate students in Microbiology and Biotechnology at the School of Life Sciences, Swami Vivekananda University began on 15th July 2024 with a series of engaging and impactful sessions aimed at fostering academic and professional growth.

A standout feature of the program was an inspiring lecture delivered by Mr. Debroop Das, Branch Manager of Genetix Biotech Asia Pvt. Ltd. His session emphasized bridging the gap between academic learning and industry requirements, providing students with valuable insights into how their theoretical knowledge can be applied in practical, real-world settings. He discussed industry practices, cutting-edge technologies, and career prospects, encouraging students to align their academic pursuits with market needs.

Additionally, the program offered a comprehensive introduction to both the theoretical and practical aspects of microbiology and biotechnology, highlighting their importance in addressing global issues. Interactive discussions on advancements, emerging trends, and employment opportunities further enriched the experience.

This well-rounded initiative served to motivate students and establish a solid foundation for their academic journey, equipping them with the tools and confidence needed to excel both during their undergraduate studies and in their future careers.



SWAMI VIVEKANANDA UNIVERSITY,
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PROGRESS REPORT

JULY - 2024

Fresher's Induction Programme





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PROGRESS REPORT

AUGUST- 2024

MoU Between Swami Vivekananda University and Dinabandhu Andrews College

Swami Vivekananda University, School of Life Sciences, Departments of Microbiology & Biotechnology and Dinabandhu Andrews College have signed an MoU to promote academic excellence through knowledge and student exchange. This partnership aims to enhance learning experiences, foster collaborative research, and offer students broader academic exposure, preparing them for global opportunities.





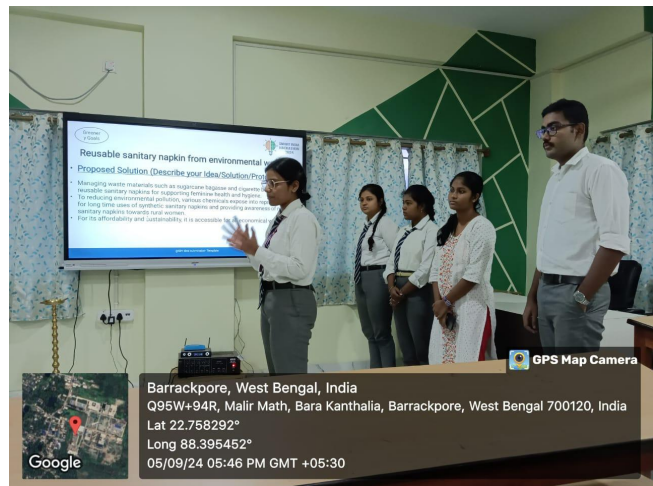
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PROGRESS REPORT

SEPTEMBER- 2024

Technovation 2024

Technovation 2024, held on September 5, 2024, was a remarkable event that united over 530 participants from across the university in a vibrant hackathon atmosphere. The event served as a platform for fostering innovation, collaboration, and competition among brilliant minds. The School of Life Sciences was well-represented, with more than 10 enthusiastic participants guided by dedicated departmental faculty. A standout moment was Team Greenery's exceptional performance, led by Dr. Priyankar Pal, which earned them the 1st rank in the university innovation contest. This achievement highlights the School of Life Sciences' commitment to excellence and its ability to contribute meaningfully to interdisciplinary innovation.





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SEPTEMBER- 2024

World Microorganisms Day

Celebration of International Microorganism Day 2024, organized by School of Life Sciences, Swami Vivekananda University, Barrackpore. The School of Life Sciences celebrated International Microorganism Day 2024 with an engaging program featuring Dr. Koushik Mukherjee, Assistant Professor and In-Charge, Department of Microbiology, Kalyani Mahavidyalaya, as the Guest Speaker. Dr. Mukherjee delivered an insightful lecture on the significance of microorganisms, followed by a lively quiz competition in the second session, fostering learning and enthusiasm among students.





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SEPTEMBER- 2024

International Conference on the Future of Sustainable Development - Challenges and Opportunities (ICFSDCO 2024)

Swami Vivekananda University's School of Life Sciences, School of Agriculture, and Department of Food & Nutrition successfully hosted the International Conference on the Future of Sustainable Development – Challenges and Opportunities (ICFSDCO 2024) on September 25th and 26th, 2024, at the university campus. This prestigious event was spearheaded by the Vice Chancellor, Prof. (Dr.) Subrata Kumar Dey, with significant contributions from Prof. (Dr.) Deb Narayan Bandyopadhyay, Chief Executive Director (Academics), and Dr. Ranjana Chakraborty, Director of the Research & Academic Department. Prof. Bandyopadhyay inaugurated the conference, while the Chief Guest of Honour, Prof. (Dr.) Nimai Chandra Saha, Director of Public Instruction (DPI), Govt. of West Bengal delivered a captivating keynote address that left a lasting impression with his insightful and forward-looking perspectives. As the university's fifth international conference, it was a remarkable success, and we are excited to continue hosting such influential events in the future.





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SEPTEMBER- 2024

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The conference was inaugurated by Prof. Bandyopadhyay, with the Chief Guest of Honour, Prof. (Dr.) Nimai Chandra Saha, delivering a keynote address. Both speakers captivated the audience with their profound insights and visionary perspectives.

The two-day conference attracted a diverse group of participants, including undergraduate, postgraduate, and doctoral scholars. As the university's fifth international conference, it was a resounding success, and we look forward to organizing many more such impactful events in the future. Large number of papers were submitted by School of Life Sciences, counting to around 67.



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PROGRESS REPORT

SEPTEMBER- 2024

One day Seminar on Industry-Academia

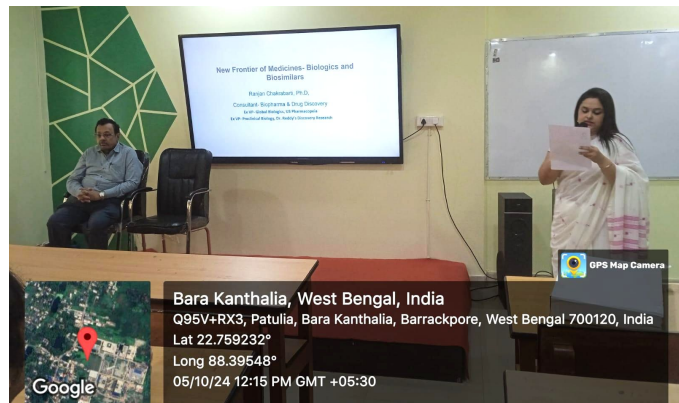
05th OCT
10:30 AM

One day Seminar on
INDUSTRY - ACADEMIA

organised by
School of Life Sciences
Swami Vivekananda University

Title of talk
**New Frontier of Medicines
Biologics and Biosimilars**

Prof. Ranjan Chakrabarti
Consultant, R&D Strategy, Biologics
Former Vice President, US Pharmacopoeia - India
Former Senior Vice President, GVK BIO
Former Vice President, Dr. Reddy's Laboratories





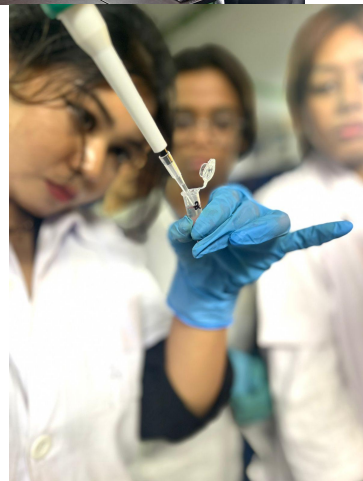
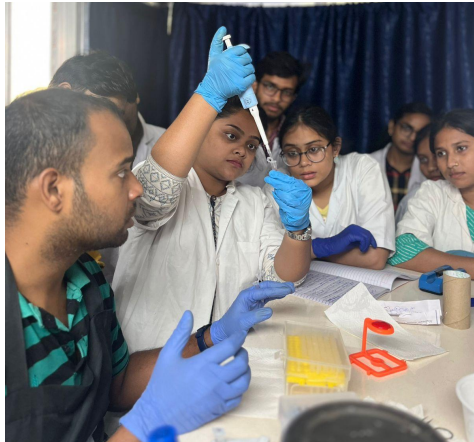
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PROGRESS REPORT

NOVEMBER- 2024

Undergrad Internship

As part of the curriculum requirements for Semester, the undergraduate and postgraduate students of the Departments of Microbiology and Biotechnology were sent for internships essential for their semester completion. The students gained hands-on experience interning at Inbol, Bose Informatics, and PDxRL, Suraksha Healthcare Pvt. Ltd., Alona Life Sciences, Secure Lab, SHRM Biotechnologies Pvt. Ltd. and Synbiogenesis, Haldirams enhancing their practical knowledge and skills in real-world environments.





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PROGRESS REPORT

NOVEMBER- 2024

National Cancer Awareness Day

The School of Life Sciences, Departments of Microbiology and Biotechnology, celebrated National Cancer Awareness Day with an inspiring program featuring Dr. Sutapa Saha, Assistant Professor of Molecular Biology, Department of Life Sciences, Presidency University, Kolkata, as the Chief Guest. Dr. Saha delivered an enlightening lecture on cancer biology, highlighting advancements in research and treatment. The event concluded with a vibrant e-poster presentation by students, showcasing their innovative perspectives on cancer-related topics.





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PROGRESS REPORT

NOVEMBER- 2024

HPLC Hands-on Training

The School of Life Sciences organized a 2-day Industrial Training on HPLC, led by Dr. Upadhyayula Satyanarayana, former Principal Development Manager at Waters India Pvt. Ltd. The training aimed to equip students with specialized skills in High-Performance Liquid Chromatography (HPLC), essential for careers in the pharmaceutical industry. Dr. Satyanarayana provided comprehensive guidance, combining hands-on training in HPLC techniques with an in-depth understanding of the theoretical principles. The program was tailored to prepare students for roles in the core pharmaceutical ecosystem, bridging the gap between academic learning and industry expectations.





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PROGRESS REPORT

NOVEMBER- 2024

One-Day Hands-On Training Workshop on Forensic Analysis of Body Fluids

A One-Day Hands-On Training Workshop on "Forensic Analysis of Body Fluids," organized by the School of Life Sciences at Swami Vivekananda University, Barrackpore, in collaboration with SHRM Biotechnologies Pvt. Ltd., aimed to inspire students by demonstrating real-life applications of theoretical concepts. During the event, a Memorandum of Understanding (MoU) was also signed between Swami Vivekananda University and SHRM Biotechnologies to foster future collaborations.





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PROGRESS REPORT

NOVEMBER- 2024

Student Placement

The placement drive was highly successful, with Meeleods Pharma hiring 9 candidates (2 undergraduates and 7 postgraduates), OG Health Care 3 postgraduates, and AVON Foods 2 postgraduates. GRG Health and Martlenz Knowledge Services recruited 3 postgraduates, IDS Infotech Ltd. 4 postgraduates, and Chimera Gentech 3 postgraduates. Episource and Diatek Healthcare each selected 4 postgraduates, while LifeCell International Pvt. Ltd. also hired 4 postgraduates. Capline Service, Indoriv Clinical Pvt. Ltd., Meditab Software, SHRM Biotechnologies, and RK Life Care hired 1, 1, 4, 2, and 1 postgraduate candidates, respectively.

The recent placement and internship drive yielded promising results. Fitelo selected one undergraduate candidate, and Sundarini Organic hired one postgraduate candidate. Internships with potential for permanent roles were secured by one postgraduate candidate each at SHRM and Haldiram, while three postgraduate students will start internships at Prayed in January 2025, with prospects for permanent positions. Recruitment efforts are ongoing at GRG Healthcare, Insights Opinion Pvt. Ltd., and Pharma Implex, offering additional opportunities for students.

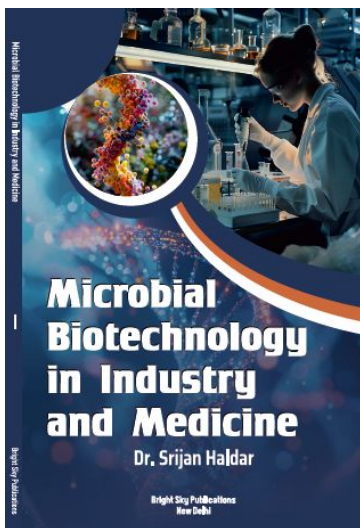
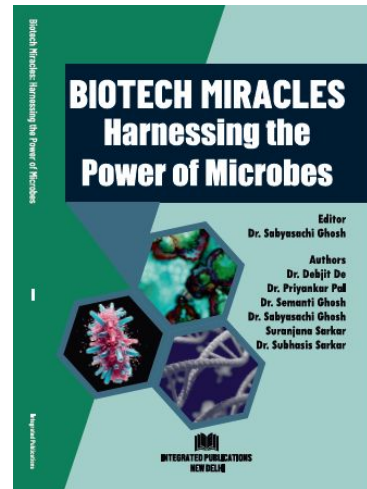
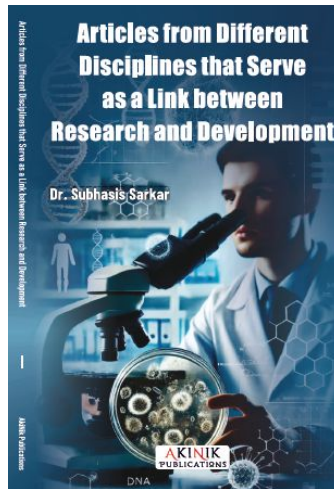
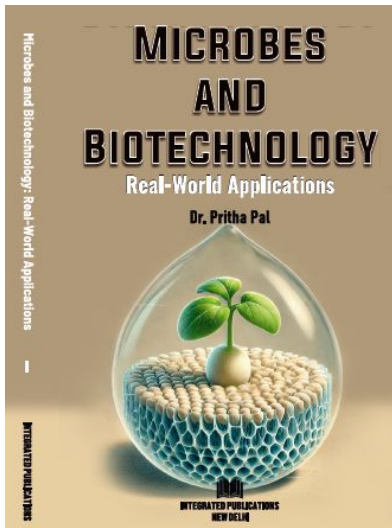


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NOVEMBER- 2024

Book Publication





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Planning (Dec, 2024-Feb, 2025)

Upcoming Events by School of Life Sciences, Swami Vivekananda University

December 2024:

- One-Day Certified Workshops: In collaboration with Inbol Healthcare Educational Centre, focusing on *Know Your Genome*, organized by the School of Life Sciences, Departments of Microbiology and Biotechnology.
- 60-Hour Certified Industrial Training: Designed for placement readiness, including an industrial visit to Bengal Beverages.

January 2025:

- Industry-Academia Conclave: Scheduled for 16th–17th January, fostering collaboration between academia and industry.

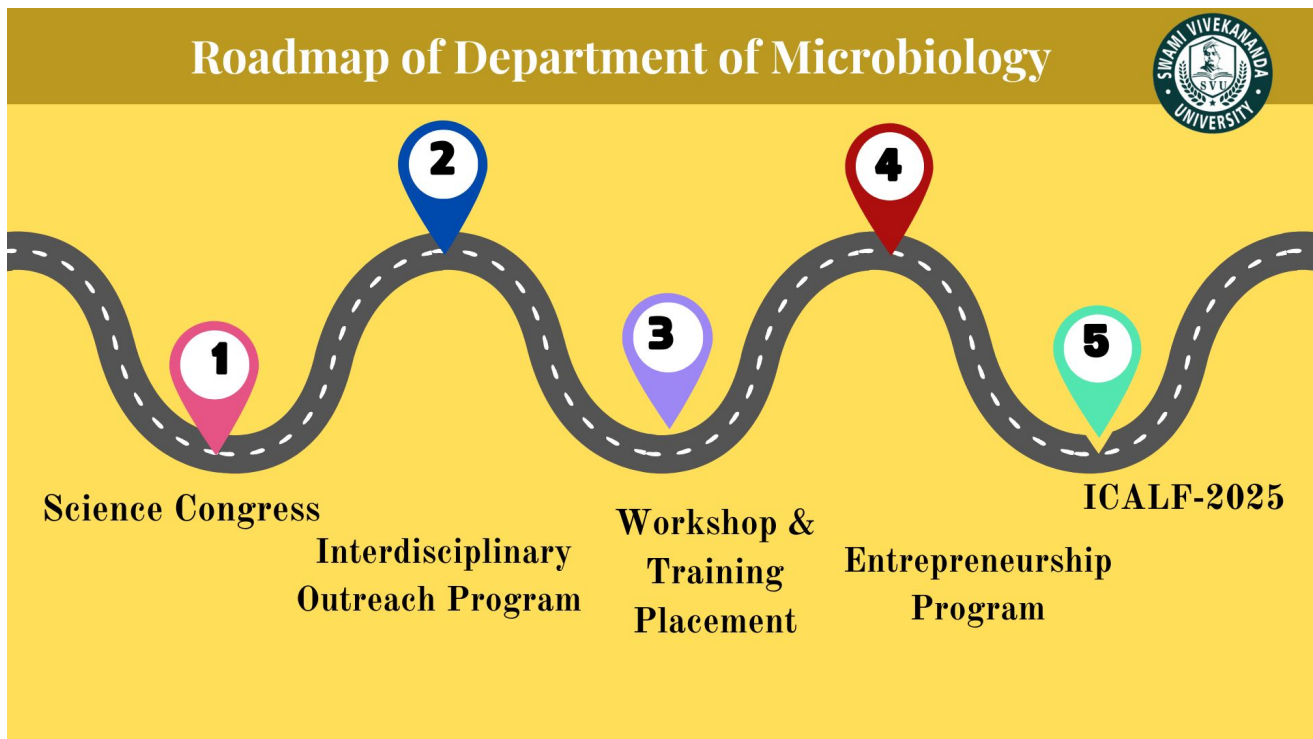
February 2025:

- World Cancer Day Observance: Event on 4th February to raise awareness and encourage action.
- International Conference: Organized from 4th–6th February, focusing on advancements in the life sciences.
- National Science Day Celebration: Scheduled for 28th February, highlighting the importance of science and innovation.



SWAMI VIVEKANANDA UNIVERSITY,
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Departmental Roadmap



The roadmap of department of Microbiology prioritizes academic excellence through key initiatives. Our participation in science congress events promotes research visibility, while interdisciplinary outreach programs foster collaboration. The upcoming major International Conference - ICALF-2025 stands out as a global platform for knowledge exchange. Additionally, an integrated entrepreneurship program empowers students to apply microbiological innovations practically. This roadmap reflects our commitment to excellence, collaboration, global engagement, and fostering an entrepreneurial mindset among our students.



SWAMI VIVEKANANDA UNIVERSITY,
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Editorial - From HoD's Desk



Dr. Pritha Pal

Head, Department of Microbiology
School of Life Sciences
Swami Vivekananda University

Throughout the month of June, the Department of Microbiology has been proactive in organizing events aimed at enhancing student development. Continuous Student Skill Development Workshops and events were specifically tailored for external students from diverse colleges and universities, offering them exposure to scientific instruments and creating a positive impact. The dedicated faculty members of the Biotechnology and Microbiology departments coordinated these training sessions with enthusiasm and allegiance. The School of Life Sciences at Swami Vivekananda University has several exciting events lined up for the upcoming months. In December 2024, the university will host a one-day certified workshop, in collaboration with Inbol Healthcare Educational Centre, on "Know Your Genome," organized by the Departments of Microbiology and Biotechnology. Additionally, a 60-hour certified industrial training program will be offered to enhance placement readiness, including an industrial visit to Bengal Beverages. In January 2025, the university will hold an Industry-Academia Conclave on 16th-17th January, aimed at fostering collaboration between academia and industry. In February 2025, the university will observe World Cancer Day on the 4th to raise awareness and encourage action. From 4th-6th February, an International Conference will be held, focusing on advancements in the life sciences. The month will conclude with the celebration of National Science Day on 28th February, emphasizing the significance of science and innovation.