



**SWAMI VIVEKANANDA UNIVERSITY,
BARRACKPORE**

**SCHOOL OF
LIFE SCIENCES**

**DEPARTMENT
OF
MICROBIOLOGY**

**JANUARY- FEBRUARY
NEWSLETTER
2024**



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.



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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

JANUARY - 2024

Advancing Forward: Student Grooming Continues with Bioinformatics and Communicative English Workshops

In a recent initiative, the Department of Microbiology at Swami Vivekananda University conducted an intensive workshop spanning January to February, specifically tailored for final-year postgraduate students. This comprehensive program seamlessly integrated bioinformatics and English communication, aiming to furnish participants with essential competencies demanded by the industry.

Core Components:

The workshop encompassed a well-rounded curriculum, encompassing both the intricacies of bioinformatics tools and effective communicative strategies in English. Interactive workshops and collaborative activities were designed to foster hands-on learning experiences, complemented by expert guidance offering valuable insights into career pathways.

Empowering Participants:

This initiative not only imparted technical proficiency but also bolstered participants' communication skills. Armed with newfound capabilities and heightened confidence, attendees are now poised to thrive in the dynamic and competitive realm of Microbiology.



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PROGRESS REPORT

FEBRUARY - 2024

Shining a Light on World Cancer Day: Department of Microbiology Sparks Scientific Curiosity

In an effort to raise awareness and instill scientific curiosity, the Department of Microbiology recently commemorated World Cancer Day. This occasion provided a platform for students to explore the complexities of cancer through a scientific perspective.

Event Highlights:

The World Cancer Day celebration included a variety of engaging activities aimed at deepening students' understanding of this intricate disease. From informative seminars and panel discussions to interactive workshops, participants were encouraged to delve into the scientific intricacies of cancer research.

Promoting Scientific Inquiry:

Through interactive sessions led by esteemed faculty members and guest speakers, students were provided with insights into the latest developments in cancer biology, diagnostics, and treatment methods. The event aimed to nurture a spirit of scientific curiosity and critical thinking among attendees, inspiring them to make meaningful contributions to the fight against cancer.



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Empowering Future Researchers:

The UG Microbiology Semester 4 role-play contest underscored the power of storytelling and creative expression in education and awareness-raising efforts. Through their active involvement, students demonstrated a strong dedication to understanding and addressing the multifaceted challenges of cancer, paving the way for future innovation and advocacy in the field of Microbiology. Noteworthy was the interdisciplinary collaboration, with students from Psychology and BMLT departments contributing by presenting innovative posters on various aspects of cancer. The event was honored by the esteemed presence of Dr. Sutapa Saha, Assistant Professor at Presidency University's Department of Life Science, who served as the chief guest and judge for the role-play competition, offering invaluable expertise and guidance to the participants.



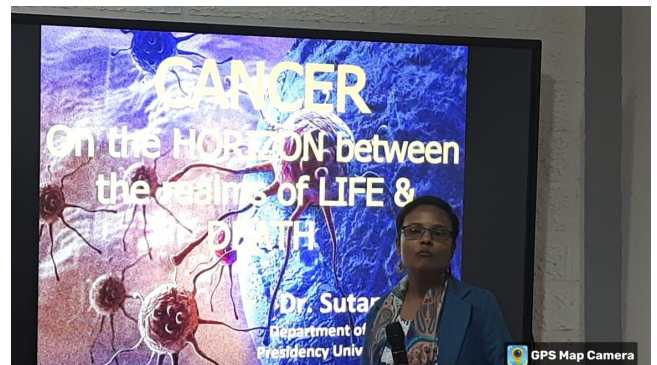


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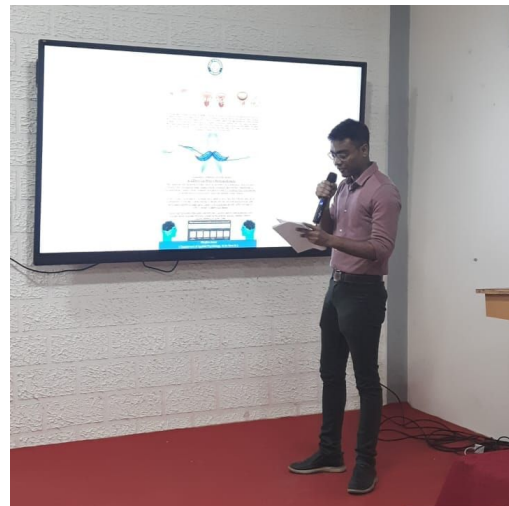


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Driving Innovation: Swami Vivekananda University Hosts IDE Bootcamp

The banner for the IDE Bootcamp (Phase-II) features logos for the Ministry of Education, Government of India, AICTE, MoE's Innovation Cell, and Wadhvani Foundation. The text reads: 'Innovation, Design and Entrepreneurship (IDE) Bootcamp (Phase-II) (Design Week Celebration)'. Below this, it states 'Bootcamp Date: 29th January to 2nd February 2024'. A section titled '10 Venues Across India' lists the following:

1 Karnavati University, Gandhinagar	6 Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur
2 The National Institute of Engineering, Mysore	7 Yeshwantrao Chavan College of Engineering, Nagpur
3 Sri Ramakrishna Engineering College, Coimbatore	8 Jaypee Institute of Information Technology, Noida
4 Vardhaman College of Engineering, Hyderabad	9 Swami Vivekananda University, Kolkata
5 Symbiosis University of Applied Sciences, Indore	10 Indian Institute Of Management-Sambalpur (IIM-Sambalpur), Sambalpur

Swami Vivekananda University recently hosted the prestigious Innovation, Design, and Entrepreneurship (IDE) Bootcamp (Phase-II) from January 29th to February 2nd, 2024. This significant event, organized by the Ministry of Education in collaboration with AICTE, Government of India, emphasized its importance in both academic and entrepreneurial domains.

Students from the Department of Microbiology, School of Life Sciences, displayed remarkable enthusiasm and active participation throughout the bootcamp. They showcased their practical-oriented skills and deep knowledge in their field, contributing to the dynamic atmosphere of innovation and collaboration. Competing alongside peers from across the state, these students demonstrated their capabilities on a platform filled with talent and creativity. Their involvement in the IDE Bootcamp not only showcased their individual talents but also underscored the university's dedication to fostering a culture of innovation and excellence among its student body.



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Easing Nervousness: Students Prepare for Placements through Mock Interviews



Swami Vivekananda University's School of Life Sciences, Department of Microbiology, recently hosted a thorough mock interview session tailored specifically for final-year postgraduate students. Acknowledging the crucial role interviews play in shaping students' professional paths, the department proactively organized this session to ensure graduates are well-equipped for the demands of the job market. With the aim of boosting confidence and refining interview skills, the session simulated real-world scenarios, providing students with practical learning opportunities. Through constructive feedback and guidance, the department aimed to address any lingering uncertainties or nervousness among students, fostering a sense of readiness and assurance as they enter the job market. This initiative highlights the university's commitment to holistic student development and its dedication to empowering graduates with the skills needed to succeed in today's competitive job market.



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Immersing in Real-World Learning: Students Explore Industry Insights at Diamond Beverages Pvt. Ltd.



The recent visit to Diamond Beverages Pvt. Ltd. marked a significant learning opportunity for undergraduate and postgraduate Microbiology students at Swami Vivekananda University, School of Life Sciences in Barrackpore. Led by esteemed faculty members, Dr. Semanti Ghosh from the Department of Biotechnology and Dr. Aritri Laha from the Department of Microbiology, students had the privilege to glean firsthand knowledge from industry professionals. Designed to complement classroom instruction, the visit aimed to deepen students' understanding of real-world applications within their field. The beverage plant provided an ideal backdrop for observing the practical application of concepts like food microbiology, microbial control, packaging, and biotechnological advancements in food production. This immersive experience not only enriched students' academic journey but also equipped them with invaluable insights to excel in future pursuits within microbiology-related industries.

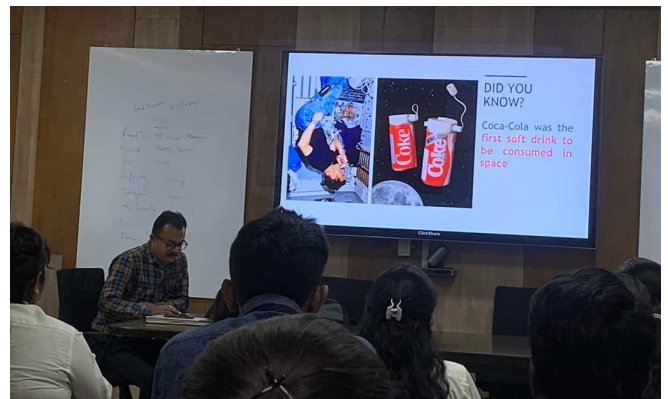


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Tech Fest 2024: Sparking Creativity and Fostering Innovation at Swami Vivekananda University Campus

Under the esteemed guidance and forward-thinking leadership of Mr. Saurabh Adhikari, the Chief Operating Officer of Swami Vivekananda University, the Tech Fest 2024 was meticulously arranged on the university campus from February 19th to 21st. The event garnered enthusiastic participation from students across both undergraduate and postgraduate Microbiology departments. Demonstrating their creativity and expertise, students curated 3D models for display, showcasing their deep comprehension of concepts and instilling a sense of ownership over their projects. Moreover, the preparation process provided invaluable training in presentation skills as students delivered their work before a distinguished panel of judges.





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Microbeats: Unleashing Creativity at the SVU Cultural Fusion

Upon the completion of a semester characterized by rigorous preparation, including the creation of intricate 3D models and extensive rehearsals, students eagerly embraced the festivities of the SVU cultural fest. Both undergraduate and postgraduate Microbiology students demonstrated their talents across various categories, presenting electrifying dance performances and captivating band showcases.





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York Environmental Sustainability Institute Knowledge Exchange Fellows Program



The announcement of Dr. Srijan Halder securing the York Environmental Sustainability Institute Knowledge Exchange Fellows scheme for the 2023-24 term stands as a remarkable achievement for the entire department. As the Co-Principal Investigator (CoPI), Dr. Halder's commitment to investigating the status of indoor air pollution in the Indian Subcontinent for a year underscores his dedication to environmental sustainability.

This moment not only showcases Dr. Halder's research prowess and scientific acumen but also serves as an inspiration for students, scholars, and faculty members across the department. His leadership and drive to push the boundaries of knowledge and tackle environmental challenges elevate the department's standards of research and academic excellence, fostering a culture of innovation and scholarly accomplishment. Dr. Halder's accomplishment serves as a guiding light, motivating further exploration and impact in the field of environmental sustainability.



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Planning (February-2024)

ICALF-2024



The Department of Biotechnology and Microbiology, nestled within the School of Life Sciences, is collaborating with the Departments of Agriculture, Life Sciences, and Food & Nutrition for the second installment of the International Conference on Agriculture, Life Sciences, and Food & Nutrition (ICALF). Set to unfold on the university campus from February 22nd to 24th, 2024, this conference is poised to serve as a platform for student and scholar presentations, accompanied by robust scientific discussions and lectures.

ICALF endeavors to cultivate a culture of scientific rigor and research foresight by convening experts and enthusiasts from various disciplines to share knowledge, ideas, and insights. Through fostering meaningful interactions and partnerships, ICALF aims to propel research and innovation in agriculture, life sciences, and food-related fields. This event epitomizes the ethos of academic excellence and interdisciplinary cooperation, propelling the boundaries of scientific discovery and inquiry.



SWAMI VIVEKANANDA UNIVERSITY,
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Planning (February-2024)

National Science Day

Under the esteemed leadership of Mr. Saurabh Adhikari, Chief Operating Officer of Swami Vivekananda University, the Departments of Microbiology and Biotechnology within the School of Life Sciences have partnered with the Departments of BMLT, Food & Nutrition, and Psychology to jointly host the National Science Day Celebrations.

This event will feature esteemed speakers from each of the four domains, sharing their valuable insights and expertise. Following the talks, an inter-departmental science model competition will provide students with an opportunity to showcase their innovative ideas and scientific skills.

This collaboration between departments highlights the university's dedication to fostering interdisciplinary learning and collaboration. Through events like the National Science Day Celebrations, the School of Life Sciences continues to cultivate scientific curiosity and skill development among its students, ensuring their readiness to address future challenges.



SWAMI VIVEKANANDA UNIVERSITY,
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Planning (February-2024)

National Vaccination Day

Under the visionary leadership of Mr. Saurabh Adhikari, Chief Operating Officer of Swami Vivekananda University, the Departments of Microbiology and Biotechnology within the School of Life Sciences are excited to announce the upcoming Vaccination Day celebration.

This event will kick off with an expert lecture highlighting the critical importance of vaccination, followed by an engaging student reel competition focused on various aspects of vaccines. Our primary goal is to not only promote teamwork among students but also deepen their understanding of the significant role vaccines play in public health. We extend our sincere appreciation to Mr. Saurabh Adhikari for his steadfast support and guidance, which inspires us to organize impactful and educational initiatives for our students. Through events like the Vaccination Day celebration, we aim to instill a profound sense of responsibility for public health within our student body and empower them to advocate for vaccination with knowledge and conviction.

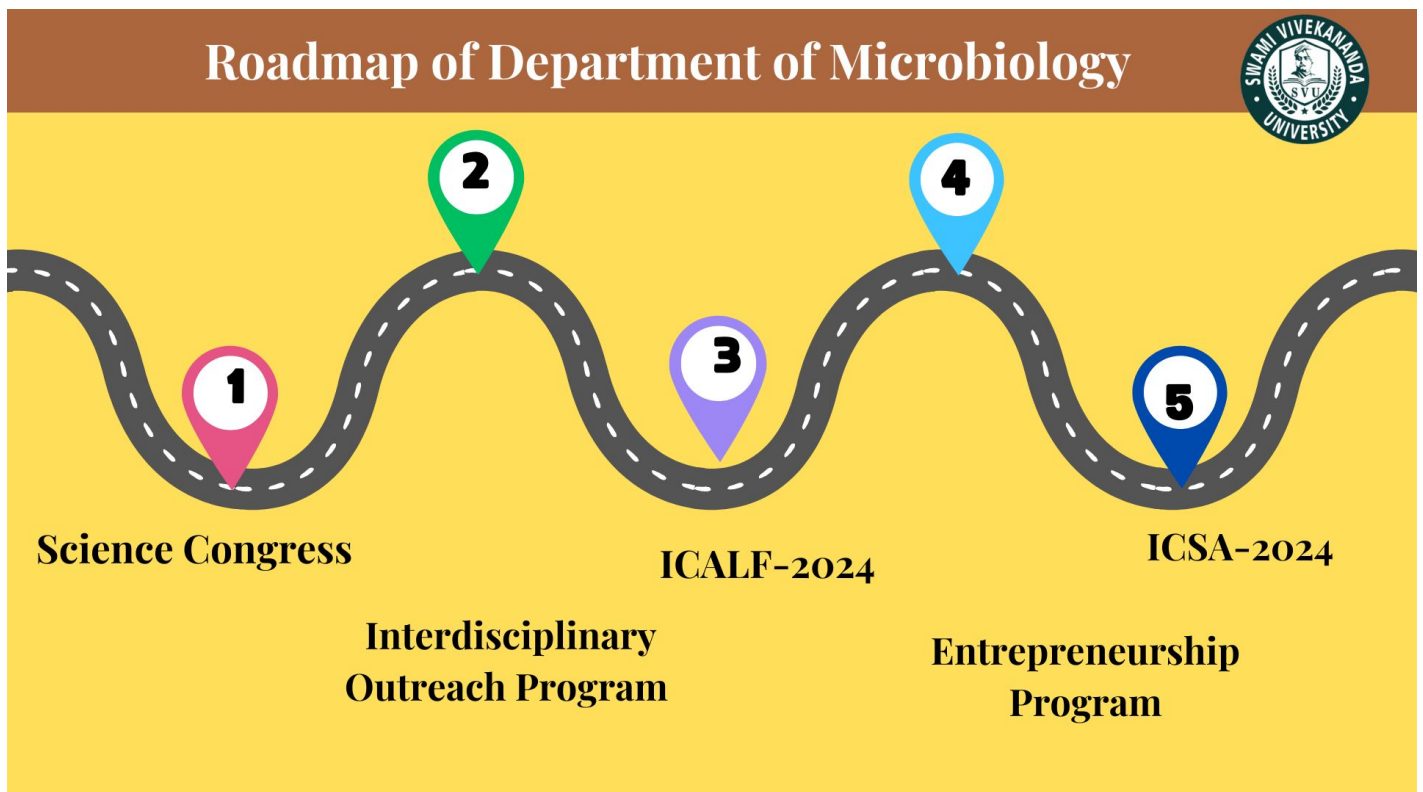
World Down Syndrome Day

Under the inspiring guidance of Mr. Saurabh Adhikari, Chief Operating Officer of Swami Vivekananda University, the Departments of Microbiology and Biotechnology within the School of Life Sciences are delighted to announce the upcoming Down Syndrome Day celebration. The event will kick off with an enlightening lecture delivered by a distinguished guest speaker, followed by active student participation in a variety of engaging activities.



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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 two major International Conference - ICALF-2024 and ICSA-2024 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.



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Editorial - From HoD's Desk



Dr. Pritha Pal

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

The Department of Microbiology at Swami Vivekananda University is dedicated to nurturing student development and fostering academic excellence. Through a comprehensive array of initiatives, the department cultivates an environment conducive to growth and success. From workshops enhancing technical skills such as Bioinformatics to communicative English sessions refining students' verbal and communication abilities for successful placement endeavors, SVU prioritizes equipping students for their future pursuits.

A significant highlight on the university's agenda was the recent hosting of the esteemed Innovation, Design, and Entrepreneurship (IDE) Bootcamp (Phase-II) from January 29th to February 2nd, 2024. Organized in collaboration with the Ministry of Education and AICTE, Government of India, this event underscored SVU's prominence in both academic and entrepreneurial realms. The university actively promoted student participation, fostering an environment that encourages real-world connectivity and problem-solving skills. In addition to academic endeavors, SVU arranges mock interview sessions and industry visits, including informative trips to companies like Coca-Cola, offering students invaluable practical exposure.



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Editorial - From HoD's Desk



Dr. Pritha Pal

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

The committed faculty members within the department exemplify an unwavering dedication to excellence in both research and education. They consistently secure project grants and foster scientific curiosity among students. Despite demanding academic schedules, students enthusiastically engage in extracurricular activities, showcasing their talents in events such as tech fests and cultural festivals. Recently, a faculty member secured the York Environmental Sustainability Institute Knowledge Exchange Fellows scheme 2023-24, focusing on understanding the status of indoor air pollution in the Indian Subcontinent as CoPI for a duration of one year.

The Department of Microbiology remains steadfast in its dedication to prioritizing the welfare of its students. It is committed to continuously evolving and innovating, seeking out novel techniques and methodologies to enhance the quality of education provided. Remaining vigilant to advancements in the field, the department strives to cultivate a dynamic learning environment. Through the integration of emerging technologies and the adoption of progressive approaches, students are equipped with the requisite skills and knowledge vital for navigating the complexities of Microbiology, both during their academic journey and in their future endeavors.