



**SWAMI VIVEKANANDA UNIVERSITY,
BARRACKPORE**

**SCHOOL OF
LIFE SCIENCES**

**DEPARTMENT
OF
BIOTECHNOLOGY**

**MARCH- APRIL
NEWSLETTER
2024**



SWAMI VIVEKANANDA UNIVERSITY,
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ABOUT THE DEPARTMENT

The Department of Biotechnology, part of the School of Life Sciences at Swami Vivekananda University, is dedicated to supporting a group of ambitious individuals on their journey to excellence, providing them with an ideal platform for self-redefinition. The department accommodates a diverse range of students, including postgraduates, undergraduates, and PhD scholars, in addition to academic staff that includes emerging researchers.

With a focus on achieving great heights, the department offers a highly specialized laboratory infrastructure that encompasses four labs specializing in Biotechnology, Microbiology, Molecular Biology & Biochemistry, Plant Biotechnology, and Bioengineering. The library is stocked with a collection of well-informed books in relevant fields, creating a continuous space for students to explore the latest developments. The perfect blend of theoretical knowledge and practical application is facilitated through classes held in spacious classrooms and well-equipped labs. This setup provides students with an essential environment for experiential learning, personal development, and successful placement in reputable industries. The department places a strong emphasis on exposure through internships, hands-on training, and industry visits, ensuring a comprehensive educational experience for its students.



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MISSION

Our mission lies in the translation of academic knowledge into practical application is a key focus, emphasizing outcome-based teaching approaches. Central to our educational philosophy is the establishment of a cooperative relationship between the industry and academia, fostering a dynamic exchange of ideas and experiences. Our commitment extends to conducting research that addresses local, national, and global challenges, ensuring that our academic endeavors have a meaningful impact on the broader community.

Furthermore, we are dedicated to developing graduate students who are not only well-versed in their academic disciplines but also equipped with robust analytical and leadership skills. Through this holistic approach, we aim to prepare our students to navigate and contribute effectively to the complex demands of their chosen fields, fostering a new generation of professionals capable of making significant and positive contributions to society.



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VISION

In the Biotechnology department, our focus lies in seamlessly translating academic knowledge into practical applications. We employ outcome-based teaching methodologies to enhance the learning experience, ensuring that students acquire not only theoretical understanding but also practical skills. A key aspect of our approach involves establishing a cooperative relationship between the industry and academia, creating opportunities for students to engage with real-world challenges and industry practices. Our commitment extends to conducting impactful research that addresses issues at local, national, and global levels, contributing to the advancement of biotechnological knowledge. Moreover, we aim to develop graduate students who not only possess a strong academic foundation but are also equipped with analytical and leadership skills, empowering them to thrive in the dynamic field of biotechnology.



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OBJECTIVE

1. **Academic Excellence:** Our commitment is to deliver high-quality education and training across diverse academic levels within the expansive field of biotechnology.
2. **Cutting-Edge Research:** We foster a culture that encourages innovative and impactful research, pushing the boundaries of biotechnological sciences.
3. **State-of-the-Art Facilities:** Our dedication extends to maintaining and upgrading specialized laboratories that provide students with practical learning experiences at the forefront of biotechnology.
4. **Interdisciplinary Collaboration:** We actively seek collaborations with other departments, research institutions, and industries, fostering interdisciplinary approaches to biotechnological research.
5. **Holistic Learning:** Through the integration of theoretical knowledge and hands-on practical experiences, we emphasize the diverse applications of biotechnology to provide a comprehensive educational experience.
6. **Library Resources:** Our comprehensive library boasts a rich collection of resources tailored to the field of biotechnology, supporting the academic endeavors of our students.
7. **Industry Exposure:** Students benefit from internships, hands-on training, and industry visits, gaining valuable insights into the real-world applications of biotechnological principles.
8. **Ethical Practices:** We instill a strong sense of ethical conduct and responsibility in both research and professional practices within the field of biotechnology.



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OBJECTIVE

9. Global Perspective: Our programs are designed to prepare students for success in a diverse and interconnected professional landscape, providing a global perspective on biotechnological challenges and opportunities.

10. Community Engagement: We actively engage with the community through outreach programs and collaborative initiatives, emphasizing the application of biotechnological solutions for societal benefit.

11. Continuous Improvement: In response to evolving trends and challenges in biotechnology, we maintain a dynamic curriculum, ensuring the highest standards of education and research.



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PROGRESS REPORT

March - 2024

Embracing Diversity: Swami Vivekananda University Commemorates World Down Syndrome Day

In a heartfelt tribute to inclusivity and awareness, the School of Life Sciences at Swami Vivekananda University in Barrackpore recently marked World Down Syndrome Day with an illuminating event. The occasion was graced by the esteemed presence of honourable Dr. Sujoy Ghosh, an Associate Professor from the Department of Zoology at the University of Calcutta, who served as the guest speaker. The event, which took place amidst a backdrop of enthusiasm and empathy, served as a platform to shed light on Down syndrome, fostering understanding and compassion within the university community. Dr. Ghosh, known for his expertise in the field, delivered a compelling address, enriching the audience with his insights and knowledge. Attendees were treated to a thought-provoking discourse that delved into various aspects of Down syndrome, including its biological underpinnings, societal perceptions, and avenues for support and inclusion. Through engaging anecdotes and scholarly analysis, Dr. Ghosh underscored the importance of embracing diversity and creating a more inclusive society where individuals with Down syndrome are valued and empowered. It resonated deeply with the ethos of Swami Vivekananda University, which is committed to nurturing holistic development and fostering a culture of empathy and understanding. The commemoration of World Down Syndrome Day at Swami Vivekananda University served as a poignant reminder of the power of knowledge, empathy, and community in promoting acceptance and inclusion.

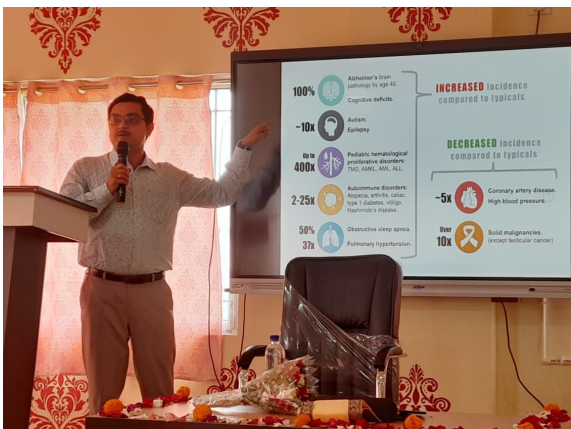


SWAMI VIVEKANANDA UNIVERSITY,
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PROGRESS REPORT

March - 2024

Embracing Diversity: Swami Vivekananda University Commemorates World Down Syndrome Day





SWAMI VIVEKANANDA UNIVERSITY,
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PROGRESS REPORT

April 2024

Empowering Future Scholars: The Impact of Journal Club Sessions in Biotechnology and Microbiology at Swami Vivekananda University

The Journal Club sessions, organized by the Departments of Biotechnology and Microbiology within the School of Life Sciences for PG Semester-II students, continue to serve as invaluable platforms for intellectual growth and skill development. During these sessions, students delve into recent scientific papers, presenting their interpretations and understanding to their peers. These gatherings not only foster a keen research appetite among the students but also hone their abilities in public speaking and critical analysis. Under the guidance of Dr. Aritri Laha, Assistant Professor and Convenor of the Journal Clubs for both Biotechnology and Microbiology departments, students receive continuous support and mentorship. Dr. Debjit De, the vibrant and highly skilled Assistant Professor within the Department of Biotechnology at the esteemed School of Life Sciences, recently captivated students with an expert lecture showcasing his visionary research endeavors. With his dynamic presentation style and profound insights, Dr. De left an indelible mark on the minds of those in attendance, motivating and empowering them to pursue excellence in their academic and research pursuits.



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PROGRESS REPORT

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Planning (March- April 2024)

National Technology Day

Under the esteemed guidance of Shri Saurabh Adhikari, Chief Operating Officer of Swami Vivekananda University, the Departments of Microbiology and Biotechnology, within the prestigious School of Life Sciences, are gearing up to commemorate National Technology Day on May 11th. The objective is to highlight the indispensable relationship between life sciences, particularly biotechnological interventions, and technology. Through this celebration, we aim to motivate students to grasp the intricacies of technology and its application within the realm of life sciences. Our goal is to inspire students to not only understand but also implement technological advancements effectively, thereby fostering innovation and progress in this critical field.





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Planning (March- April 2024)

Biological Diversity Day



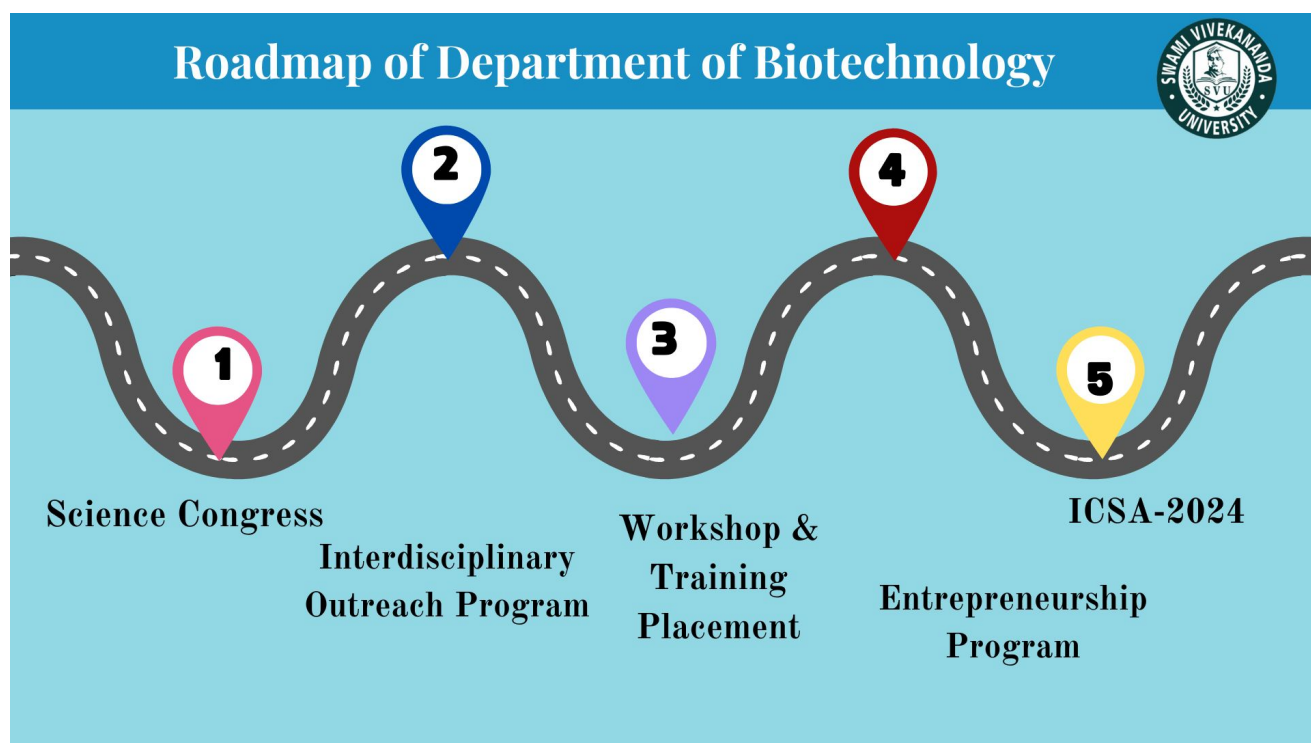
The United Nations annually observes the International Day for Biological Diversity (IDB) on May 22nd, aiming to elevate awareness surrounding biodiversity issues and the threats posed by human activities. It also seeks to underscore the significance of biodiversity as a global asset for future generations. The UN General Assembly designated May 22nd as IDB in December 2000, commemorating the adoption of the Convention on Biological Diversity (CBD) on May 22, 1992.

In line with this global initiative, the School of Life Sciences, along with the Departments of Microbiology & Biotechnology, is organizing a celebratory event. The objective is to emphasize the importance of biodiversity and engage students through various interactive activities aimed at deepening their understanding of diverse life forms. Through this event, we aim to foster a sense of appreciation and stewardship for the rich tapestry of life on our planet among the student community.



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Departmental Roadmap



The Biotechnology department's strategic plan places a premium on academic excellence through pivotal initiatives. Active participation in science congress events enhances the visibility of our research, and outreach programs with interdisciplinary approaches promote collaborative efforts. The forthcoming International Conference, ICSA-2024, serve as noteworthy global platforms for knowledge exchange. Furthermore, our integrated entrepreneurship program empowers students to practically apply microbiological innovations. This roadmap epitomizes our dedication to excellence, collaboration, global engagement, and the cultivation of an entrepreneurial mindset among our students..



SWAMI VIVEKANANDA UNIVERSITY,
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Editorial - From HoD's Desk



Dr. Pritha Pal

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

The Department of Biotechnology has been diligently cultivating an atmosphere of academic excellence and student development within the School of Life Sciences throughout March and April. Various events have been organized, including the World Down Syndrome Day, where Dr. Sujoy Ghosh, an esteemed associate professor from the Department of Zoology at the University of Calcutta, graced us with his presence as a guest speaker. Dr. Ghosh, with his extensive expertise in Down syndrome, has contributed significantly to the noble cause associated with it. His talk not only instilled compassion, awareness, and understanding among the audience but also shed light on the scientific and genetics of the syndrome.

Following the enlightening session, our journey progressed with the Journal Club sessions. Here, students from the Department of Biotechnology displayed their utmost efforts in uncovering new scientific research advancements and presenting them in the most accessible manner. The club acts as a platform for nurturing students holistically, with a particular emphasis on cultivating their scientific aptitude. Dr. Aritri Laha's dedication to fostering students' scientific temperament is commendable.



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Dr. Pritha Pal

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

As we step into May, Biological Diversity Day awaits us, further enriching the overall development of our students. This event aims to instill a sense of real-life application of the scientific knowledge they acquire, thereby preparing them for their future professional endeavors.

The faculty members are consistently brainstorming ways to improve teaching and learning methodologies, foster innovation and research, provide effective student mentoring, and refine progress evaluation processes. These collaborative efforts underscore our steadfast dedication to cultivating a dynamic and supportive learning environment. Our goal is to empower students to excel academically, prepare them for placement opportunities, and enable them to make meaningful contributions to their respective fields of study.

We express our sincere appreciation to the university's senior leadership, which includes the esteemed Chancellor, Vice Chancellor, Chief Operating Officer, Registrar, Deputy Registrar, and all esteemed members of the governing body, for their consistent support. With their invaluable guidance, we are resolute in our commitment to upholding academic excellence and fostering a culture of scientific inquiry and innovation within the School of Life Sciences.