



**SWAMI VIVEKANANDA UNIVERSITY,
BARRACKPORE**

**SCHOOL OF
LIFE SCIENCES**

**DEPARTMENT
OF
BIOTECHNOLOGY**

**FEBRUARY-MARCH
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

February - 2024

Tech Fest 2024: Igniting Creativity, Inspiring Innovation at Swami Vivekananda University Campus

Under the esteemed guidance and visionary leadership of the Chief Operating Officer of Swami Vivekananda University, honourable Shri Saurabh Adhikari, Chief Operating Officer sir, the Tech Fest 2024 was meticulously organized on the university campus from February 19th to 21st. The event witnessed active participation from students across both undergraduate and postgraduate Biotechnology departments. Showcasing their ingenuity and expertise, students prepared D-3 models for exhibition, demonstrating their profound understanding of concepts and fostering a sense of ownership over their projects. Additionally, the preparation process offered invaluable training in presentation skills as students presented their work before a distinguished panel of judges.





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PROGRESS REPORT

February 2024

Cultivating Excellence: Reflections on ICALF-2024 at Swami Vivekananda University

The second edition of ICALF-2024 convened from February 22nd to 24th, 2024, within the precincts of our esteemed university campus. The inauguration of the conference was graced by the distinguished presence of Prof. Samirranjan Adhikari and Prof. Nimai Chandra Saha, whose eminent stature added profound significance to the event. The scholarly discourse was enriched by expert lectures delivered by luminaries such as Prof. Nimai Chandra Saha and Dr. Chirantan Sarkar, complemented by the erudition of our esteemed faculty members, Dr. Srijan Halder and Dr. Priyajit Banerjee.

The technical sessions that ensued provided an invaluable platform for the active engagement of doctoral candidates, postgraduate scholars, and undergraduate students from the Department of Biotechnology, thereby fostering a dynamic exchange of ideas and insights. Such endeavors underscore Swami Vivekananda University's steadfast commitment to cultivating a culture of scientific inquiry and scholarly excellence, thereby equipping our students with the requisite acumen and proficiency for their future pursuits.

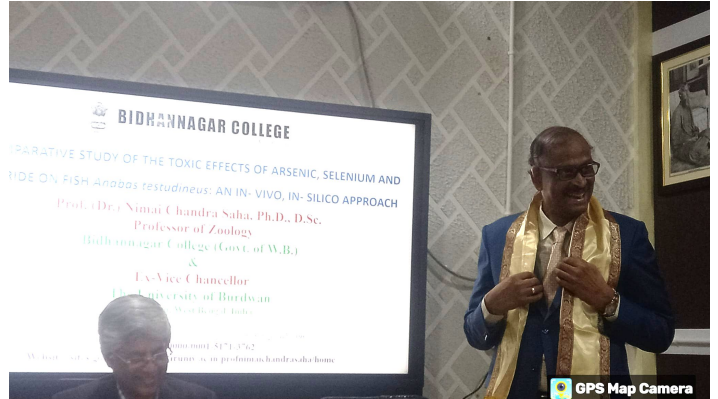
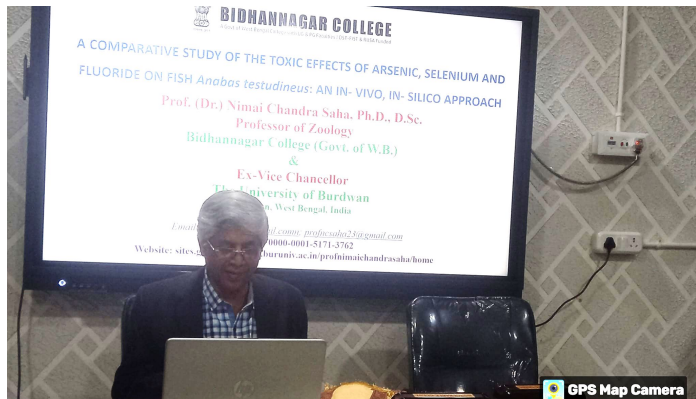


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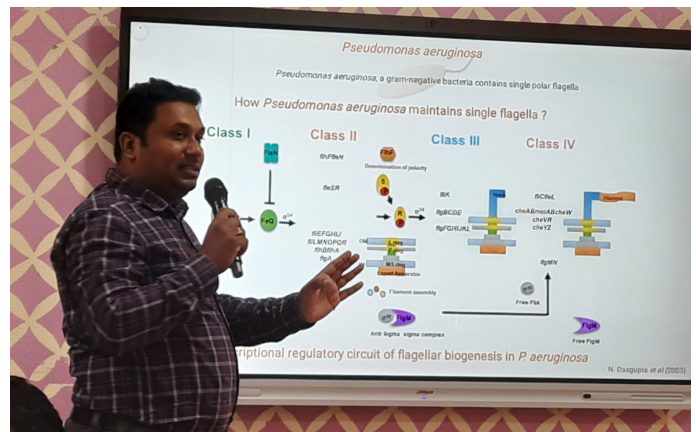
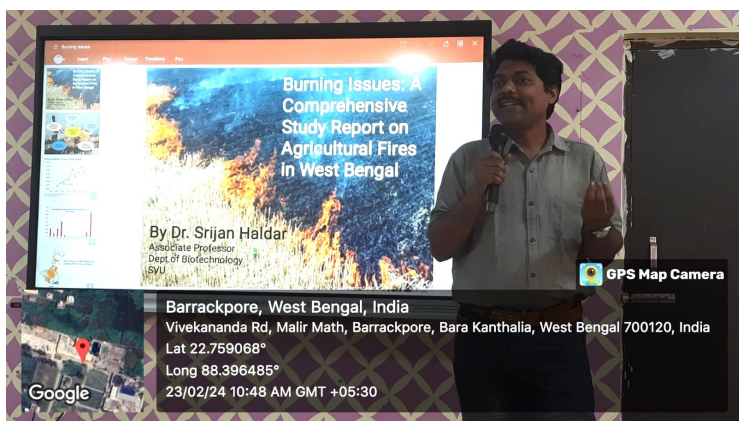


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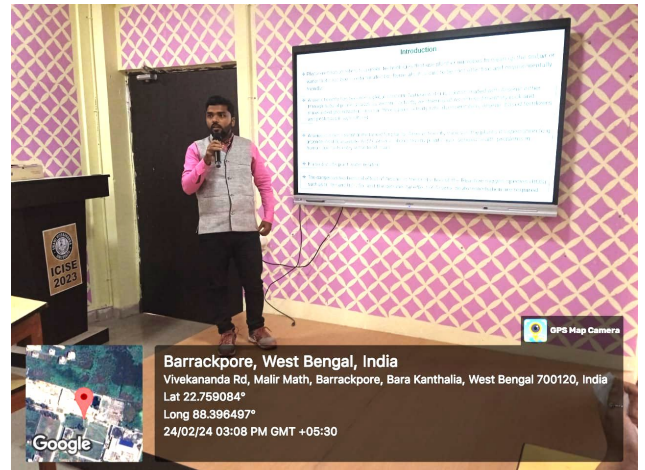
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PROGRESS REPORT

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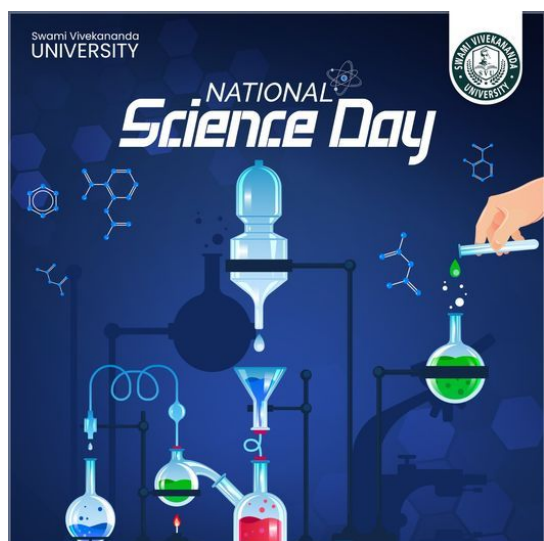
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February - 2024

Embracing Indigenous Innovation: National Science Day 2024

The collaborative efforts of the School of Life Sciences and the School of Allied Health Sciences at Swami Vivekananda University marked the celebration of National Science Day – 2024. The event commenced with a series of captivating lectures delivered by esteemed experts, each bringing invaluable insights from their respective domains. Dr. Saptarshi Biswas, Deputy Technical Manager at the Department of Biotechnology, Ministry of Science and Technology, Government of India, shed light on the significance of scientific applications in contemporary times. Following him, Dr. Ritesh Ranjan Pal, Assistant Professor at the School of Biological Sciences, Indian Association for the Cultivation of Science (IACS), Kolkata, delved into the latest advancements in biotechnology. Next, Dr. Anindya Sundar Panja, Assistant Professor & Head of the Department of Biotechnology & Biochemistry at Burdwan Institute of Management and Computer Science, shared his expertise on biotechnology and biochemistry. Finally, Dr. Sunanda Biswas, Assistant Professor in the Department of Food & Nutrition at Acharya Prafulla Chandra College, West Bengal State University (WBSU), provided valuable insights into the realm of nutrition science. These enlightening lectures significantly enriched the attendees' understanding and appreciation of the diverse dimensions of science and technology.





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Embracing Indigenous Innovation: National Science Day 2024



During the latter segment of the event, an exciting inter-departmental quiz competition took center stage, drawing participants from diverse disciplines such as Biotechnology, Microbiology, BMLT, Optometry, Food & Nutrition, BMRIT, BPT, and Psychology. The competition sparked intense fighting spirit, particularly among students from Biotechnology, Microbiology, and Optometry, who fiercely competed for the leading positions. Ultimately, Biotechnology triumphed as the champions, with Optometry securing the first runners-up position and Microbiology emerging as the second runners-up.

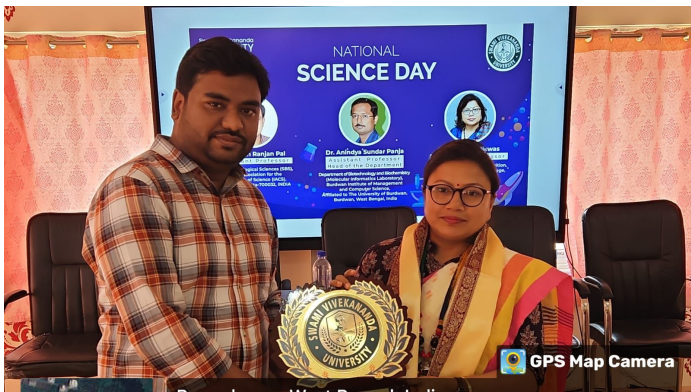


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Embracing Indigenous Innovation: National Science Day 2024



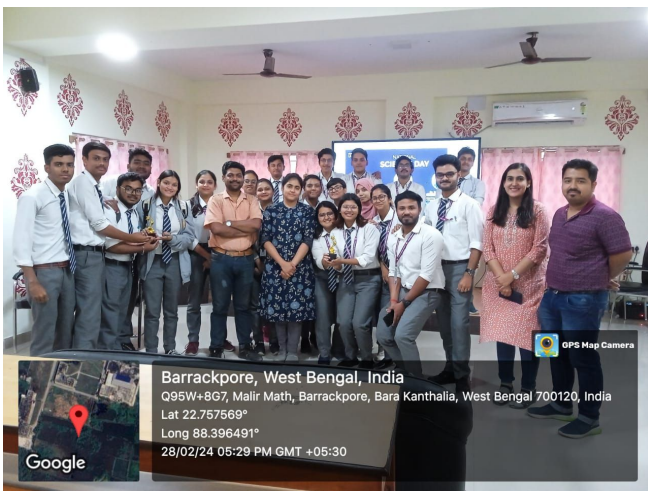


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Embracing Indigenous Innovation: National Science Day 2024





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PROGRESS REPORT

March - 2024

Commencement of Departmental Journal Club



Swami Vivekananda University's School of Life Sciences, Department of Biotechnology, demonstrated its commitment to nurturing the professional development of final-year postgraduate students by organizing comprehensive mock interview sessions. Recognizing the pivotal role that interviews play in shaping students' career trajectories, the department proactively tailored these sessions to address the specific needs of soon-to-be graduates. The primary objective of these sessions was to provide students with practical learning opportunities while refining their interview skills. Through immersive simulations of real-world scenarios, participants gained invaluable experience and insights into the interview process. Additionally, the sessions offered constructive feedback and guidance to help students address any lingering uncertainties or nervousness, thereby fostering a sense of readiness and assurance as they prepare to enter the job market. This initiative underscores Swami Vivekananda University's dedication to holistic student development and its commitment to empowering graduates with the skills and confidence needed to succeed in today's competitive job market.

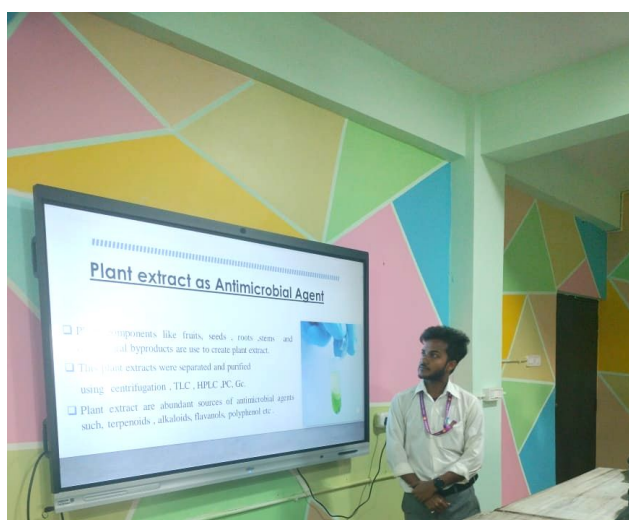
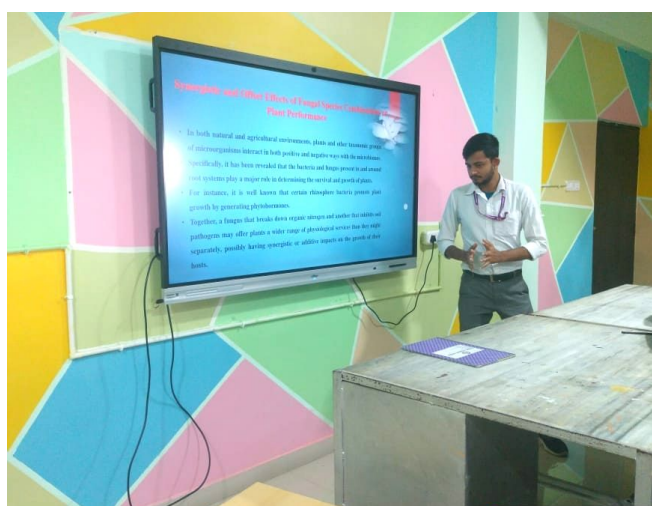


SWAMI VIVEKANANDA UNIVERSITY,
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PROGRESS REPORT

March - 2024

Commencement of Departmental Journal Club





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PROGRESS REPORT

March - 2024

Empowering Tomorrow's Leaders: Vaccination Day Celebrations at Swami Vivekananda University

With great enthusiasm, the Department of Microbiology and Biotechnology at Swami Vivekananda University celebrated Vaccination Day, emphasizing the pivotal role of immunization in safeguarding public health. Dr. Sarita Sarkar, a distinguished expert from Neotia University, graced the occasion as the guest speaker, delivering an insightful lecture. Dr. Sarkar shared invaluable perspectives on the importance of vaccination, elucidating its profound impact on disease prevention and community well-being.

Following the enlightening lecture, the event transitioned into an engaging reel competition organized by the department's students. This competition provided a platform for students to delve into the diverse array of vaccines available and understand their mechanisms of action. Through imaginative presentations and discussions, participants explored the complexities of vaccine development, distribution, and implementation. The Vaccination Day celebration at Swami Vivekananda University not only underscored the significance of vaccination but also nurtured active participation and awareness among students about their pivotal role in advancing public health initiatives.



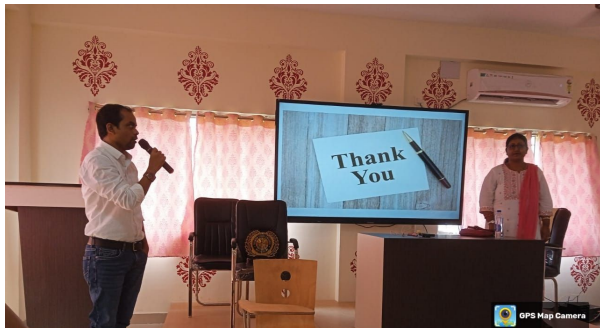
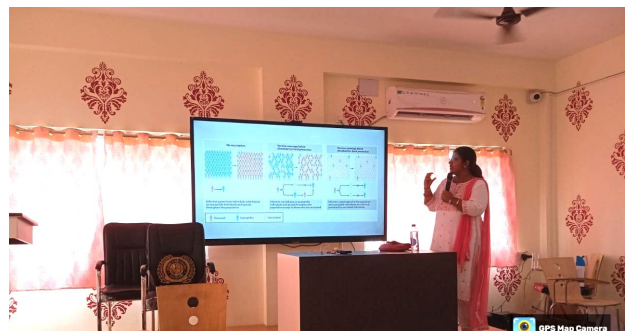


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Empowering Tomorrow's Leaders: Vaccination Day Celebrations at Swami Vivekananda University





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Planning (March- April 2024)

World Down Syndrome Day



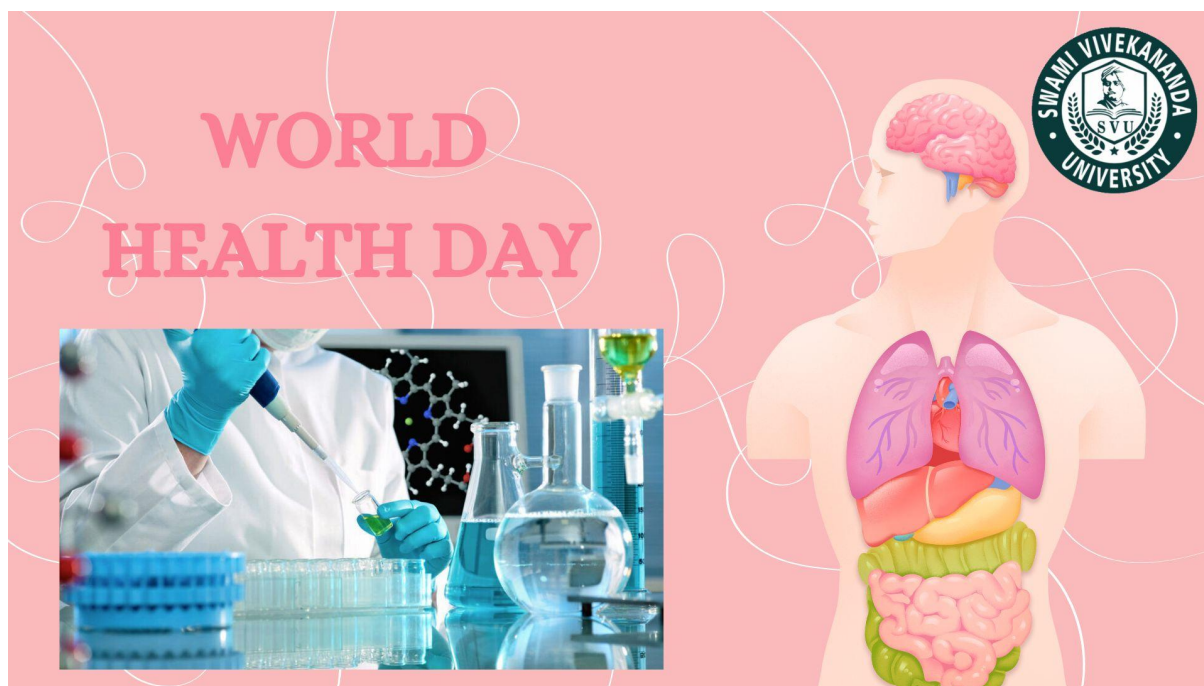
Under the inspirational leadership of Shri Saurabh Adhikari, Chief Operating Officer of Swami Vivekananda University, the Departments of Microbiology and Biotechnology within the School of Life Sciences are thrilled to unveil the forthcoming celebration of Down Syndrome Day. We are honored to welcome Dr. Sujoy Ghosh, Associate Professor in the Department of Zoology at University of Calcutta, as our esteemed guest of honor for this occasion. The event will commence with an enlightening lecture delivered by Dr. Ghosh, a distinguished speaker in the field. Following the lecture, students will actively participate in a range of engaging activities designed to raise awareness and celebrate the importance of Down Syndrome Day.



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Planning (March- April 2024)

World Health Day



In an exciting collaboration, the Department of Biotechnology and Microbiology, housed within the esteemed School of Life Sciences, is teaming up with the Departments of Agriculture and Allied Health Sciences to orchestrate a grand celebration for World Health Day on campus. This joint endeavor seeks to underscore the paramount importance of health within our student body and wider academic community. By joining forces, we aim to not only elevate awareness but also foster a culture of holistic well-being among students, faculty, and staff. Through various engaging activities and educational initiatives, we endeavor to instill a deeper understanding of the pivotal role that health plays in our lives, empowering individuals to make informed choices for their own well-being and that of society at large.



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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



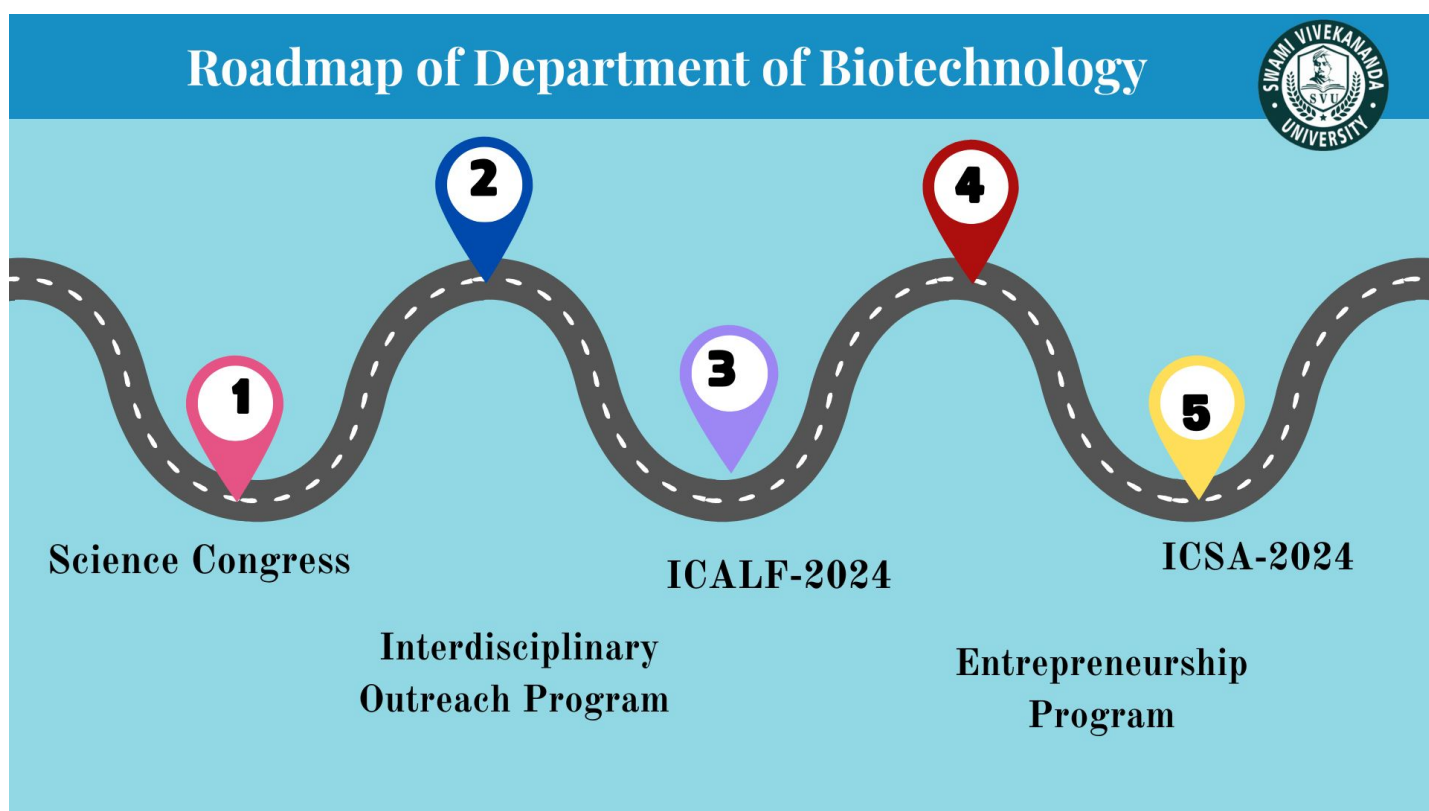
The United Nations annually observes the International Day for Biological Diversity (IDB) on May 22nd, aiming to elevate awareness surrounding biodiversity issues and the threats posed by human activities. It also seeks to underscore the significance of biodiversity as a global asset for future generations. 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..



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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 at Swami Vivekananda University, School of Life Sciences is dedicated to fostering student development and academic excellence through a comprehensive educational approach. Our department prioritizes the creation of an environment conducive to growth and achievement, meticulously planning and executing various initiatives in collaboration with the School of Life Sciences. Our efforts have led to the organization of several impactful events, including ICAP 2024, where both postgraduate and undergraduate students actively participated, presenting their research papers. These events not only enhanced their scientific knowledge but also provided invaluable exposure within the academic community. Moreover, faculty members have actively contributed by presenting their research findings for publication and showcasing their work at prestigious platforms.

National Science Day, observed on February 28th, provided a platform to instill a deeper appreciation for the practical applications of theoretical knowledge acquired in the classroom. Additionally, our department organized an inter-departmental quiz competition, with the Undergraduate Biotechnology Semester 4 emerging victorious, highlighting the talent within our student body. In the field of technology, our students excelled in the 3D models segment of the tech fest, demonstrating their ability to translate theoretical concepts into practical innovations.



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Editorial - From HoD's Desk



Dr. Pritha Pal

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

Throughout March, our department continued its initiatives with the commencement of the Journal Club for semester-II postgraduate students. Engaging sessions delve into recent research publications, fostering a culture of scientific inquiry and innovation among our students, preparing them for leadership roles in their respective fields. In our commitment to public health awareness, we celebrated Vaccination Day with great enthusiasm, hosting Dr. Sarita Sarkar, Assistant Professor at Neotia University, as our esteemed guest speaker. Her insights enriched our understanding of vaccination and its significance in disease prevention.

We extend our heartfelt gratitude to the university's higher management, including the honourable Chancellor sir, honourable Vice Chancellor sir, honourable Chief Operating Officer sir, honourable Registrar sir, honourable Deputy Registrar sir, and all esteemed members of the governing body, for their unwavering support. With their guidance, we remain steadfast in our mission to maintain academic excellence and cultivate a culture of scientific inquiry and innovation within the School of Life Sciences.