

AIB जोहार जीवन

JOHAR JEEVAN

"Celebrating the life and science of the land"



TEMPLE OF TRANSFORMATION

Amity Institute of Biotechnology (AIB) believes that education is not merely about professional readiness, but about becoming thinkers who can turn problems into possibilities, becoming scientists who serve humanity, and becoming leaders who carry ethics with innovation.

With its cutting-edge labs, interdisciplinary curriculum, and an ever-evolving vision, the institute offers a fertile ground for:

- Undergraduate, postgraduate, and doctoral journeys
- Hands-on research experiences
- Collaborative industry and academic partnerships

THE AIB SPIRIT

The spirit of AIB is not confined to classrooms. It breathes through:

- Thought-provoking guest lectures
- National and international seminars
- Research projects that tackle real-world issues
- A vibrant community where faculty and students grow together

WHERE CURIOSITY MEETS CREATION

Founded in 2015, Amity Institute of Biotechnology (AIB) is more than an academic department; it is a living ecosystem of knowledge, where students are not just taught to master facts, but to question, imagine, and create.

Here, biotechnology is not just a subject it is a philosophy, a path of exploring life itself, molecule by molecule, idea by idea.



MESSAGE FROM THE LEADERS

From the desk of Vice Chancellor

It gives me immense pleasure to witness the inaugural edition of the Amity Institute of Biotechnology's newsletter an important milestone in the institute's journey of academic excellence and innovation. The period from January to June has been marked by remarkable student achievements, research initiatives, and vibrant co-curricular activities. Events such as Rangmanch & Role Reboot, आहारVEDA on National Science Day, the Internal Hackathon for SIH 2024, and numerous competitions have showcased the talent, creativity, and scientific spirit of our students and faculty. I commend the institute for fostering an environment where learning transcends classrooms and ignites real-world impact. This publication is a testament to your collective enthusiasm, dedication, and pursuit of excellence. I look forward to many more inspiring editions in the future.

Warm wishes and heartiest congratulations to the entire team!



Prof. (Dr.) Piyushkant Pandey



Prof. (Dr.) Sumita Dave

Message from Pro Vice Chancellor

It is a pleasure to share my thoughts on the occasion of the release of first edition of the Amity Institute of Biotechnology's newsletter. This initiative is a reflection of the institute's commitment to academic excellence, creativity, and collaborative growth. A newsletter not only documents achievements but also strengthens the sense of community and shared purpose among students and faculty. I am proud to see the passion and energy with which the institute continues to grow, embracing innovation while upholding strong academic values. My sincere appreciation to the entire team for bringing this publication to life. I look forward to many such editions that continue to inspire and inform.

Message from Director

Launching the first edition of our newsletter feels like a natural step forward in bringing the vibrant life of the Amity Institute of Biotechnology into one collective space. Over the past six months, the institute has seen a wonderful blend of academic excellence, scientific curiosity, and creative expression.

From the thoughtful discussions during आहारVEDA on National Science Day, to the energy and talent displayed at Rangmanch & Role Reboot, and the innovation showcased during the Internal Hackathon for SIH 2024 our students have consistently risen to every opportunity. Competitions, workshops, guest lectures, and research presentations have further enriched the academic atmosphere.

This newsletter not only documents our progress but also reflects the enthusiasm and teamwork that drive our institute forward. I sincerely thank the faculty coordinator and student editorial team for curating this edition so thoughtfully. I look forward to seeing this platform grow as a meaningful space for sharing ideas, achievements, and aspirations.



Prof. (Dr.) Varaprasad Kolla

INTRODUCTION TO AIB

FROM THE HEAD OF DEPARTMENT

Amity Institute of Biotechnology, Amity University Chhattisgarh, stands as a vibrant center of academic and research excellence, dedicated to shaping the next generation of biotechnology professionals. As the Head of the Department, I take great pride in our commitment to fostering scientific curiosity, innovation, and industry-oriented skill development.

AIB is equipped with three fully functional BSL laboratories, designed to support safe and advanced research in microbiology, molecular biology, and cell biology. Our department boasts a wide range of sophisticated instruments including High-Performance Liquid Chromatography (HPLC), Gas Chromatography (GC), bioreactors, digital microscopes, distillation units, and autoclaves, along with PCR machines, UV-Vis spectrophotometers, gel electrophoresis units, laminar airflow cabinets, incubators, and centrifuges. These facilities ensure that our students gain critical hands-on experience and are well-versed in modern biotechnological techniques.

Beyond academics, AIB encourages a culture of dynamic engagement through various academic and co-curricular events such as national and inter-departmental poster competitions, biotechnology quizzes, technical workshops, expert lectures, and awareness campaigns, along with active participation in sports, cultural events, and hackathons. These initiatives contribute to the all-round development of our students and promote scientific thinking, creativity, and teamwork.

With a forward-thinking curriculum, dedicated faculty, and a focus on experiential learning, AIB continues to provide a strong foundation for students to thrive in both academia and the biotechnology industry.



Dr. V. Balasubramanian



TEAM AIB

THE FACULTY HELIX

Prof. (Dr.) Varaprasad Kolla



Prof. (Dr.) Varaprasad Kolla is the Professor and Director at the Amity Institute of Biotechnology, Amity University Chhattisgarh. He has done his Ph.D. in molecular medicine at University of Basel, Switzerland and Postdoctoral Studies at Freiberg University, Germany with expertise

spanning Indian Knowledge Systems, climate change, and molecular medicine, he brings a multidisciplinary approach to research and education.

He has published over 30 research papers and holds 3 published patents, reflecting his commitment to innovation and scientific advancement. Prof. Kolla is actively engaged in projects that integrate traditional knowledge with modern science, contributing meaningfully to sustainable development and healthcare solutions.

His leadership continues to inspire academic excellence and impactful research in the region.

Dr. V. Balasubramanian



Dr. V. Balasubramanian is currently working as Head of the Department and Associate Professor in Amity Institute of Biotechnology, Amity University Chhattisgarh. His research forte are biodegradation of plastic waste, especially finding genes and enzymes involved in the process of biodegradation and carbon dioxide

sequestration by using enzymes to fabricate nanohydrogel with incorporation of nanotechnology. He is a recipient of awards, honors, and fellowships such as DST-SERB Young Scientist Award, the UGC-DR. D.S. Kothari Post-Doctoral Fellow, Best Young Researcher from GRABS Educational Charitable Trust, CSIR-Senior Research Fellow. He has written and cowritten more than 60 publications including Patents filled (2), Copyrights (2), research articles (34 peer-reviewed) and book chapters (21). He completed 3 research projects from Govt. of India, and currently, has two on-going projects from state and central governments' funding agencies.

Dr. Padmalaya Das

Dr. Padmalaya Das is currently serving as Professor at the Amity Institute of Biotechnology, Amity University. She pursued her doctoral training at ICGEB, New Delhi, focusing on the development of synthetic peptides as inhibitors of malaria parasites. Her post-doctoral research in the USA expanded her expertise in molecular biology and immunology, laying a strong foundation for her continued work in public health research.

In addition to her teaching responsibilities, Dr. Das has been actively involved in research projects related to sickle cell anemia, reproductive tract infections, and menstrual hygiene management. These projects have received support from both national and international funding agencies. She has published her work in peer-reviewed national and international journals and presented her

research at various scientific conferences. Dr. Das has also guided several PhD and postgraduate students in their academic pursuits.



Dr. Arunima Sur



Dr. Arunima Sur is an esteemed academician and researcher with 16 years of experience in the field of biotechnology. Currently serving Corporate Resource Centre of the University and Assistant Professor at the Amity Institute of Biotechnology, Amity University Chhattisgarh. She is NSS Program Officer at Amity University Chhattisgarh. Dr. Sur qualified GATE and completed her doctoral studies at the School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. Her impressive academic and research portfolio includes an ongoing industrial project, three granted copyrights, and seven provisional patents, of which four have been published. She has authored three books and over 20 research papers and chapters in reputed journals. Recognized for her contributions, she has been honoured with the Kalpana Chawla Award and has received various travel grants. Her research primarily focuses on natural products from plants and fungi, herbal product formulation, and bioremediation

Dr. Anju Mehsram

Dr. Anju Mehsram is Assistant Professor in Amity Institute of Biotechnology at Amity University Chhattisgarh. She is Ph.D. in Biotechnology and has over 13 years of experience in teaching and research. She has qualified CSIR-UGC NET JRF and Lectureship in Life Sciences four times and is University Gold Medalist.

She worked on Tuberculosis, Apoptosis and Brassinosteroids. She has attended 14 workshops, 25 Conferences, published more than 26 Papers, 2 books and 6 book chapters. She is Editorial Board Member and Reviewer in various Journals. She holds expertise in Plant Biotechnology including secondary metabolites and biological pest control.



Dr. Prassan Choudhary

Dr. Prassan Choudhary has obtained his Doctor of Philosophy from Amity University, Lucknow Campus in 2024. Dr. Choudhary's Ph.D. work was related to substrate optimization and overexpression of lipase from *Pseudomonas plecoglossicida* S7. The work also involved protein engineering of lipase to enhance its thermostability and pH tolerance. He has worked as a Research Associate in the Institute Technology Management Unit (ITMU), ICAR-National Bureau of Agriculturally Important Microorganisms, Mau (4th May, 2022 to 28th August, 2024) where he managed the IPR related cases and their maintenance. He has developed a noveltemplate preparation method (rHTTP) to perform direct PCR from diseased plant tissues within ten minutes. Further, he has reported LAMP based assays for the detection of *Rhizoctonia solani* AG-1 IA, *Sarocladium oryzae*, and *Fusarium oxysporum ciceris*.



Dr. Sushma Chauhan

Dr. Sushma Chauhan, is Assistant Professor at Amity University Chhattisgarh, Raipur India. She is proud receiver of visiting research professor & since 2023-2025, worked at the department of system and biotechnology at Konkuk University, and chemical and biochemical engineering, Dongguk university, Seoul campus, South Korea. Dr. Chauhan's academic journey has been marked by outstanding accomplishments, culminating in a Ph.D. in biochemical engineering from Dongguk University, Seoul, South Korea. She is a proud recipient of prestigious international doctoral study awards from the Korean government under the Korean Global Scholarship Program (KGSP). Additionally, she has been recognized with best research and best presentation awards. Her academic and research portfolio includes an ongoing industrial project. Dr. Chauhan's research has been extensively published in highly reputable Q1 and SCI international journals including international book, & book chapters. Her research has primarily focused on protein/enzyme engineering, antimicrobial peptides, metabolic engineering, and synthetic biology.



Dr. Amita Shakya

Dr. Amita Shakya is currently working as Assistant Professor in Amity Institute of Biotechnology, Amity University Chhattisgarh, Raipur, India. She obtained her Ph.D. from National Institute of Food Technology Entrepreneurship and Management, Kundli (NIFTEM-K) (Inst. of National Importance). Her research interest fall into the exploration of environment-food-health nexus. Her niche is solid waste management through biochar technology and she is expanding her research horizons in food sciences, and new product development as well. She is recipient of ICMR and CSIR-SRF research fellowships, qualified ASRB-NET. She is editor of the book, reviewer of many international journals, and author of internationally recognized articles. She is in the editorial board of many journals of international repute.



Dr. Dugeshwar Karley

Dr. Dugeshwar Karley holds a Ph.D. in Biotechnology from the University of Madras, where his research was conducted at the prestigious Bhabha Atomic Research Centre (BARC) facilities in Kalpakkam. Since March 2023, he has been serving as an Assistant Professor at Amity University Chhattisgarh. His areas of specialization include biofilms, bioremediation, nanoparticles, microbiology, and cell line culture, reflecting a strong interdisciplinary expertise in both fundamental and applied biosciences. He is author of many prestigious research articles and book chapters.



Er. Somya Agarwal

Er. Somya Agarwal is a biotechnologist holding both B.Tech. and M.Tech. degrees in Biotechnology. Over the past six years of her academic journey, she has gained significant exposure to both private and government biotechnology research institutes, where she trained in various advanced techniques. Her training experiences include stints at MRD Life Sciences Lab (Lucknow), CSIR-IHBT (Palampur), and the Institute of Agriculture, BHU (Varanasi). She has also participated in numerous seminars and conferences.

She has a keen interest in agricultural biotechnology research and has previously worked as a Research Associate at VNR Seeds Pvt. Ltd., where she contributed to R&D projects focused on vegetable crops in the molecular biotechnology domain.

Before joining Amity University Raipur, she served as an Assistant Professor in the Department of Biotechnology at BIET, AKTU-Lucknow. She is currently working as a Teaching Assistant at the Amity Institute of Biotechnology, Raipur, and is pursuing her Ph.D. in Biotechnology, focusing on public health biotechnology.



FACULTY ACHIEVEMENTS

Dr. Sushma Chauhan

Dr. Sushma Chauhan earned her Ph.D. from Dongguk University, South Korea, in 2018 under the prestigious Korean Government Scholarship Program. Since 2019, she has been a faculty member at Amity University Chhattisgarh, where she actively contributes to academic advancement and research excellence. In recognition of her scientific contributions, Dr. Chauhan received a visiting scientist invitation from Dongguk University and has been conducting collaborative research there since 2023. She has successfully completed four independent research projects funded by the National Research Foundation of Korea, including one network project in which she was lead investigator. Her research portfolio includes the development of a genetic circuit-based biosensor for the rapid detection of olivetolic acid in a cell-free protein synthesis system. She has also engineered a genetic tool for fusing the termini of two individual proteins, enhancing the thermal stability of target enzymes. Additionally, she has developed an innovative active learning and machine learning-based screening platform to identify optimal gene combinations for metabolic pathway reconstruction through gene homology analysis.



Dr. Amita Shakya

Dr. Amita Shakya, Assistant Professor, Amity Institute of Biotechnology, has received an invitation as the Post Doctoral Fellow from the Durban University of Technology, South Africa. She has been selected to work in the lab of renowned scientist Prof. Faizal Bux, Director, Institute of Water and Wastewater Technology, Durban University of Technology for the period of 01 Jan 2025- 31 Dec 2027. She will be working on the wastewater treatment through algal and biochar technology.



ANUVANSHIKI – THE AIB STUDENT CLUB

ANUVANSHIKI – The Biotech Society of AIB



Established in 2018, Anuvanshiki is the official student-run Biotech Club of the Amity Institute of Biotechnology (AIB) at Amity University Chhattisgarh.

The name Anuvanshiki is derived from the Sanskrit term for “genetics” or “heredity,” reflecting the club’s deep roots in biological science, innovation, and sustainability.

The club was created with the objective of nurturing scientific curiosity, academic excellence, and leadership qualities among students. Over the years, Anuvanshiki has evolved into a vibrant platform that actively engages in promoting the holistic development of biotech enthusiasts. It bridges the gap between textbook learning and real-world application by encouraging active participation in research-based, technical, cultural, and social outreach activities.

Run by students under the guidance of faculty coordinator, Anuvanshiki provides a space where young minds can connect, collaborate, and create in the field of biotechnology and allied life sciences. The club regularly organizes events such as technical quizzes, guest lectures, poster presentations, workshops, biotech fests, and cultural functions to promote both academic and interpersonal growth.

Purpose and Vision

Anuvanshiki – The Biotech Society strives to enrich academic learning beyond the classroom by exposing students to emerging trends through expert talks, industry sessions, and scientific competitions. The club emphasizes skill development through hands-on workshops and research-focused events in areas like molecular biology, genetic engineering, and bioinformatics. It fosters a culture of innovation by encouraging mini-projects, hackathons, and real-world biotech solutions. Balancing science with creativity, Anuvanshiki hosts cultural and literary events that promote artistic expression of scientific ideas. Leadership and teamwork are core to its functioning, helping members build essential soft skills. With a strong sense of social responsibility, the club also engages in outreach activities, environmental campaigns, and awareness drives to make biotechnology accessible and impactful for society.

Signature Events and Initiatives

- **BioBazaar** – A showcase of biotech innovations, sustainable models, and research posters promoting creativity and entrepreneurship.
- **Samvaad** – A dialogue series fostering discussions on biotechnology, ethics, and sustainability with experts and students.
- **Ranganch** – Cultural expressions of science through skits, plays, and poetry blending creativity with scientific communication.
- **Workshops & Webinars** – Skill-building sessions on lab techniques, bioinformatics, genetic engineering, and more.
- **Guest Lectures** – Talks by experts from academia and industry to connect theory with real-world biotech applications.
- **Alumni Talks** – Insightful sessions by AIB alumni offering mentorship and career guidance.

Roles and Responsibilities – Anuvanshiki Biotech Club

Anuvanshiki operates through a structured executive body and dedicated sub-clubs to ensure effective functioning and holistic student engagement. The Core Executive Body includes the President, who leads the club with vision and represents it institutionally; the Vice President, who ensures coordination across teams; the Overall General Secretary, responsible for operations, documentation, and communication; and the two Treasurers, who manage finances and fundraising efforts.

Anuvanshiki has 5 Sub-Clubs, which focus on specific domains. The Cardinal Club promotes fitness and sportsmanship through events and inter-college participation. The ISR Club handles outreach and sustainability initiatives, encouraging student involvement in social responsibility. The Literary Club blends science with expression through debates, storytelling, and writing contests. The Technical Club fosters innovation via workshops, hackathons, and tech exposure. Lastly, the Cultural Club celebrates the artistic side of science, organizing performances, fests, and cultural events. Each sub-club is led by a General Secretary with Joint Secretaries supporting execution, ensuring leadership, creativity, and inclusiveness across all activities.



Dr. Arunima Sur

Assistant Professor-III
Amity Institute of Biotechnology (AIB)
Training and Placement Officer, CRC
Amity University Chhattisgarh

STUDENT ACHIEVEMENTS

29th June 2025



Ms. Priya Gupta, a talented student of the Amity Institute of Biotechnology, has been honored with the Young Scientist Award at the 20th Chhattisgarh Young Scientist Congress – 2025. She received a cash prize of ₹21,000/- in recognition of her outstanding scientific contribution and innovative research presentation. This remarkable achievement is a testament to her dedication, academic, excellence, and passion for scientific inquiry. We extend our heartfelt congratulations and best wishes for her future endeavors.

6-7th March 2025

Ms. Shivali Jain, a research scholar from the Amity Institute of Biotechnology, achieved 1st position in the oral presentation at the International Conference organized by Rawatpura University, Raipur, held on 6th–7th March 2025. Her outstanding performance was recognized among participants from various institutions, marking a proud moment of academic excellence.



4th February 2025

Ms. Soumya Bhunjia, student of B.Sc. BT 4th sem, secured 2nd place in an inter-college debate competition organized by Amity University in association with The Indian Association of Parliamentarian on Population and Development (IAPPD) on 4th Feb

2025. Spoke against the motion: "The climate crisis is posing a threat to human health"



12th – 14th December 2024



Ms. Nidhi Chandrakar, a research scholar from the Amity Institute of Biotechnology, received the Best Poster Presentation Award at the DAE-BRNS International Conference on "Recent Trends in Biofilms and Biofouling Control (BBC-2024)", held at the Bhabha Atomic Research Centre (BARC), Kalpakkam. This recognition highlights her commendable contribution to cutting-edge research in the field of biofilms and biofouling control.

25th February 2025



Ms. Bhumija Pandey, a B.Sc. Biotechnology 6th semester student, was honored with the Best Student Award by the Microbiologists

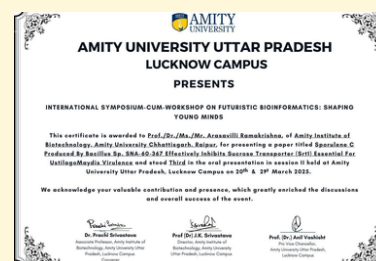
Society of India. The award was presented on 25th February 2025 during an event organized at Mahila Mahavidyalaya, Bhilai, Chhattisgarh, recognizing her excellence in the field.

8th February 2025



Ms. Tanushree Panigrahi, student of the M.Sc. BT, AIB, secured the 3rd Prize in Poster Presentation at a National Conference held at Government V. Y. T. PG Autonomous College, Durg, Chhattisgarh. This achievement reflects her dedication to academic excellence and effective scientific communication.

25th February 2025



Mr. A. Ramakrishna, a dedicated B.Tech Biotechnology student in his 8th semester, along with his team members Dr. Prassan Choudhary, Dr. Faizan Abul Qais, Waquar Dr. Akhter Ansari, Dr. Hillol Chakdar, and Prof. Varaprasad Kolla, brought laurels to the department by securing the 3rd Prize in Oral Presentation at the prestigious International Symposium-cum-Workshop on Futuristic Bioinformatics: Shaping Young Minds, held on 20th and 21st March 2025. The event was organized by the Amity Institute of Biotechnology, Amity University Uttar Pradesh, Lucknow Campus, and served as a platform for young minds to explore emerging trends and applications in bioinformatics.

EVENTS THAT SHAPED THE SEMESTER IN AIB

NATIONAL SCIENCE DAY

28th February 2025

Science in 1 Minute was a fun and engaging event organized by the that challenged students to simplify science creatively. Participants were asked to create either a meme or a one-minute video explaining any scientific concept in an innovative, humorous, or visually appealing way.

Microbe Artistry was a unique and creative event organized by the students of where science met art in the most fascinating way. Participants used different agar plate media as their canvas and microorganisms as their brush, crafting intricate and beautiful microbial designs.

Quiz Competition was a thrilling test of knowledge, speed, and teamwork. Students from various semesters participated enthusiastically, answering questions across diverse topics in biotechnology, molecular biology, genetics, and current scientific advancements.



INDUSTRIAL VISIT (KONDAGAON)

6th - 9th March 2025.



To strengthen experiential learning and expose students to real-world applications of biotechnology, the Amity Institute of Biotechnology organized an industrial visit to Maa Danteshwari Herbal Farm, located near Jagdalpur, from 6th to 9th March 2025.

This initiative was designed to give students first-hand insight into herbal farming practices, Indian spice cultivation, and the industrial-scale processing of medicinal and aromatic plants. This visit aimed to connect academic

concepts with industrial relevance, empowering students with a deeper understanding of plant biotechnology, traditional knowledge systems, and their modern-day applications. It reflects the institute's commitment to holistic education through industry engagement and skill-based learning.

आहारVEDA – A CELEBRATION OF SUSTAINABLE NUTRITION

28th March 2025

As part of its initiative to promote sustainable living and scientific engagement, the Amity Institute of Biotechnology organized आहारVEDA, an event focused on mindful eating, food science, and nutrition, aligned with the vision of the Aahar Kranti Mission launched by the Government of India to encourage nutritionally aware food choices among citizens. Key highlights included:

Millet Recipe Contest : Students showcased innovative, healthy millet-based dishes.

Digital Poster Competition: Visually creative entries promoting sustainable diets.

Expert Talk: “Decoding Labels”: Educating participants on interpreting food labels for informed choices.

Scientific Cosplay Competition: Participants brought scientific characters and phenomena to life through imaginative cosplay performances.



CONVOCATION

9th April 2025

The Amity Institute of Biotechnology participated in the Convocation Ceremony 2025 of Amity University Chhattisgarh, held on 9th April at the Pandit Deendayal Upadhyay Auditorium. Graduating students from the department received their degrees in the presence of Hon'ble Governor Shri Ramen Deka and Dr. Aseem Chauhan, Chairman of Amity University Chhattisgarh. Honorary doctorates were awarded to Dr. B.K. Das (DG, ECS, DRDO) and Mr. S.N. Swamy (CMD, EICS Group) for their remarkable contributions. The ceremony celebrated the academic achievements of our Biotechnology students and marked the beginning of their professional journeys in science and innovation.



SAMVAAD 4.0

21st April 2025

The Amity Institute of Biotechnology's flagship talk series, Samvaad, has been a hallmark of our department's engagement with thought leaders for several years. This year marked its 4th edition, themed "Health, Heritage & Humanity."

Organized by the student body Anuvanshiki, Samvaad 4.0 was graced by the presence of Ms. R. Shangeetha, IAS (2005), Secretary & Commissioner (Commercial Tax), Government of Chhattisgarh. Her address provided valuable insights into public service, governance, and the role of youth in nation-building.

This event continues the department's long-standing commitment to fostering intellectual exchange, interdisciplinary learning, and inspirational leadership. Through Samvaad, students are offered a unique opportunity to interact with distinguished professionals, thereby broadening their perspectives beyond the classroom.



INDUSTRIAL VISIT (MEDICINAL PLANT BOARD BAGBAHARA)

26th April 2025



Exploring Sustainable Agroforestry and Ethnobotanical Wealth Students recently visited the Medicinal Plant Board at Bagbahara, an insightful academic exposure that bridged theoretical knowledge with practical applications in sustainable agriculture and ethnobotany.

The visit focused on the integration of medicinal and economically valuable plants into agroforestry models, highlighting how biodiversity can be harnessed for both ecological balance and livelihood generation. Key Highlights of the Visit:

Demonstration of Agroforestry Models: Students were introduced to integrated agricultural systems combining medicinal and economic plants such as Sindoori (*Bixa orellana*), Teak (*Tectona grandis*), Vetiver grass (*Chrysopogon zizanioides*), and Lemongrass (*Cymbopogon citratus*).

Sustainable Land Use Practices: Experts shared how these plants contribute to soil conservation, pest resistance, and water retention, making them ideal for sustainable farming models.

Economic Opportunities:

Students learned about the commercial value and industrial uses of these plants, such as lemongrass in essential oils, sindoori in natural dyes, and vetiver in aromatherapy and erosion control.

Hands-on Exposure:

The interactive field tour enabled students to identify plant species, understand cultivation techniques, and explore the scope of value-added products from bioresources.



MEDICINAL PLANTS AWARENESS PROGRAM AND TOUR

Students of AIB were recently immersed in a unique educational journey during the Medicinal Plants Awareness Program & Tour, organized by the Chhattisgarh Tribal Local Health Traditions and Medicinal Plants Board (CCTLHTMPB). Held at Deori, the program was an exploration into the rich biodiversity and traditional wisdom of medicinal plants. It offered students a chance to connect with the natural world and understand the role of indigenous knowledge in sustainable health practices. Program Highlights:

Deori Farm Tour: A refreshing visit filled with interactive learning, where students explored the cultivation and uses of medicinal plants.

Hands-on Workshop: Expert-led sessions provided practical insights into local health traditions and sustainable farming methods.

Field Lunch & Gift Distribution: The experience was rounded off with traditional hospitality, giving students a taste of the region's cultural warmth. More than just a field trip, this program helped bridge scientific learning with traditional ecological knowledge.



RANGMANCH & ROLE REBOOT served as a celebration of artistic expression, leadership, and the collaborative spirit that defines the biotechnology community at Amity.



Amispark-2025 19th-21th Febuary 2025

Amispark 2025 – the annual fest of Amity University Chhattisgarh – brought vibrant energy to the campus with each department hosting its own unique theme-based events and activities. This much-awaited celebration of creativity, innovation, and student engagement saw enthusiastic participation across disciplines.

The Amity Institute of Biotechnology added a thrilling twist to this year's festivities with two exciting events:

RANGMANCH AND ROLE REBOOT

7th May 2025

The auditorium of Amity University Chhattisgarh came alive with creativity and enthusiasm during RANGMANCH & ROLE REBOOT, a vibrant cultural extravaganza organized by the students of the Amity Institute of Biotechnology.

The event highlighted student talent through three engaging segments:

Curtain Chronicles: Theatrical performances reimagining iconic movie moments.

Astral Threads : A fashion show inspired by zodiac signs and elemental themes.

Drip & Drop: A dynamic group dance battle that energized the stage.



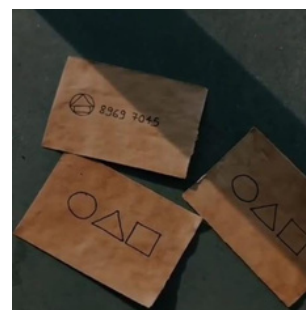
introduced with pride and appreciation, marking the beginning of a new chapter in student-driven initiatives. RANGMANCH & ROLE REBOOT served as a celebration of artistic expression, leadership, and the collaborative spirit that defines the biotechnology community at Amity.

The program also featured the announcement of the new post holders of ANUVANSHIKI, the official biotech society of the institute. The newly appointed student leaders were introduced with pride and appreciation, marking the beginning of a new chapter in student-driven initiatives.



Bio Squid Game – Inspired by the popular series, this event combined scientific challenges with survival-game elements, testing participants' knowledge, teamwork, and quick thinking in a fun yet competitive environment.

Speedy Encounter – A dynamic and engaging event specially designed for partners, promoting collaboration, speed, and coordination through interactive biotechnology-themed tasks.



From the Archives

SANGATHAN 23rd September 2024

The annual inter-Amity sports meet brought together energetic teams from various departments and schools of Amity University Chhattisgarh, showcasing exceptional teamwork and sporting spirit.

This nationwide event sees the best-performing teams advance to the grand finale at Amity Noida. This year, the Amity Institute of Biotechnology (AIB) proudly secured 3rd position among all departments on campus, reflecting the students' dedication, resilience, and enthusiasm both on and off the field.



BIOBAZAR 7.0

25th October 2024



A student-driven market place organized by AIB every six months. It is more than just a bazar it is a platform for innovation, self-expression, and collaborative learning. Students set up their own stalls selling everything from:

- Home-cooked food & beverages
- Handmade accessories & art
- Eco-friendly crafts
- Games, books, fashion, and more

What begins as a simple stall quickly becomes a lesson in entrepreneurship, teamwork, budgeting, time management, and communication all wrapped in fun and festivity.

SHAASTRARTH 2.0

19th – 20th November 2024

A vibrant two-day interdisciplinary conclave hosted by Amity Institute of Biotechnology in collaboration with Vibha (Vijnana Bharati) provided a dynamic platform for research exchange, intellectual dialogue, and eco-conscious exploration.



Organized on 19th–20th November 2024, the event began with a PhD clinic on psychometric profiling, followed by engaging keynote sessions, a panel discussion featuring renowned academicians from IIT, NIT, and CSVTU, and vibrant cultural performances by students. The second day offered an immersive experience in the Mohrengha Reserve Forest, including mind games, an eco-walk, and a keynote on higher education. AIB students actively participated, showcasing their academic and creative excellence.

“Drive Smart, Stay Safe” – Spreading Road Safety Awareness

22nd November 2024

The Amity Institute of Biotechnology in collaboration with NSS-AUC organized a Traffic Awareness Program on 22 November 2024 aimed at promoting responsible driving and road safety among students and staff.

The event featured Shri Sanjay Sharma, Assistant Inspector General (Traffic), Raipur, as the Chief Guest, who shared valuable insights on the importance of traffic rules and safe commuting habits.

Supported by Vice-Chancellor Prof. (Dr.) Piyush Kant Pandey, and with key contributions from Dr. Varaprasad Kolla (Director, AIB), Dr. Prasanna Sharma

(NSS Program Officer), Dr. Balasubramanian Velmarar (HOD, AIB), and Dr. Arunima Sur (NSS Program Officer), the event was a great success.

The program engaged participants through interactive games, creative performances, and informative sessions, all reinforcing the message of “Drive Smart, Stay Safe”.



Chhattisgarh Green Summit – A Collaborative Call for Sustainability

3rd – 5th October 2024

The 1st Edition of the Chhattisgarh Green Summit, held from 3rd to 5th October 2024 at Deen Dayal Upadhyay Auditorium, marked a significant step towards environmental awareness and action in the region. Jointly organized by Amity University Chhattisgarh and Vibgyor N.E. Foundation, the summit brought together students, environmentalists, academicians, and indigenous knowledge



holders to explore sustainable solutions rooted in traditional ecological wisdom. Focusing on key themes such as eco-tourism, forest conservation,

ecosystem services, and climate change, the event featured insightful panel discussions, engaging cultural performances, and interactive learning sessions. A special emphasis was placed on Lok (Indigenous) traditions and their role in environmental stewardship.

Smart India Hackathon 2024 – Internal Hackathon at AUC

9th and 10th September 2024,

On 9th and 10th September 2024, Amity University Chhattisgarh successfully conducted a two-day Internal Hackathon as part of the Smart India Hackathon 2024 initiative. The event served as a dynamic platform for students to demonstrate their creativity, innovation, and problem-solving abilities by developing practical, tech-based solutions to real-world challenges. Students from the Amity Institute of Biotechnology actively



participated, presenting a range of impactful ideas and prototypes. The Hackathon not only encouraged collaborative thinking and technical excellence but also identified top-performing teams to represent the university in the national Grand Finale.

This initiative reaffirmed AUC's commitment to nurturing innovation and empowering students to contribute meaningfully to the nation's digital and technological advancement.

FROM CLASSROOMS TO THE WORLD

ALUMNI OF AIB

RAJ JAISWAL

M.Sc. Biotechnology (Batch 2020–2022)

Academic Head, Aakash Institute, Kharagpur, West Bengal

Aakash Educational Services Limited

My journey at the Amity Institute of Biotechnology was instrumental in shaping both my academic perspective and professional discipline. The rigorous curriculum, supportive faculty, and collaborative environment helped me develop a strong foundation in scientific research and critical thinking. Navigating through the challenges of the pandemic alongside dedicated peers taught me resilience and adaptability qualities that continue to guide me in achieving gold medal in academics and my current role as Academic Head at Aakash Institute. AIB has not only been a place of learning but a cornerstone in my career path, and I will always carry forward its values and spirit.



ZEESHAN AHMAD

B.Sc. Biotechnology (Batch 2016-2019)

M. Sc. Biotechnology (Batch 2019-2021)

Business Development Manager, Strand Lifesciences and Medical Liaison

I hope this message finds you all in the best of health and high spirits.

It has been a true privilege to be a part of such a highly esteemed institution. The time I spent here will always remain one of the most cherished and memorable chapters of my life. The journey of five years was made smooth and enriching, thanks to the unwavering support and guidance of the Faculty and the dedication of the Non-Teaching Staff. I feel proud and honored to be an Alumni of this prestigious college. The knowledge and experiences I gained during my time here have been, and will continue to be, immensely valuable in my personal and professional life.

I am sincerely grateful that I have been considered for featuring in the Newsletter as an Alumni.

It is indeed an honor to be part of a community that upholds the values and legacy of this institution. I look forward to contributing meaningfully as a proud member of this distinguished Network.



STIRRED AND SKETCHED

The Code We Chase

*In the whisper of cells and silent genes,
We search the truth in hidden scenes.
A world unseen, yet full of might,
Where life begins beyond our sight.*

*Microscopes are our guiding stars,
We reach for answers, near and far.
From Petri dish to DNA,
We mold the future, day by day.*

*We learn from roots, from air, from sea,
What life is, and what it could be.
Through enzymes, genes, and folded strands,
We hold tomorrow in our hands.*

*Failures come, but don't dismay,
We rise, we learn, we find a way.
With every test, with every slide,
We chase the truth we hold inside.*

*This department, our second home,
Has shaped the path we've come to own.
With every class and every trial,
We walk the science mile by mile.
To biotech dreams, we raise our voice,
In research, in hope, we make our choice.
A journey long, with heart and grace,
In genes and cells—the code we chase.*

By - Chanchal Chandravanshi
B.Tech (BT) 4th Semester



By - Anisha Panda
B.Tech (BT) 2nd Semester

The Lab Coat

*Put on the coat, and I become someone else.
Careful. Measured. Maybe even competent.
It's oversized, but the weight feels earned.
It smells like ethanol and mild panic.
Science doesn't need heroes
just people who label their tubes.*



By- Ankita Parsai
B.Tech (BT) 4th Semester

Green Pea Potato Salad

Servings: 3-4
Prep Time: 10 minutes
Cook Time: 20 minutes
Total Time: 30 minutes

Ingredients:

3 medium potatoes
~1 cup green peas (fresh or frozen; roughly equal in volume to the potatoes)
1 medium onion, finely chopped
1 medium tomato, finely chopped
1-2 teaspoons butter or a small amount of oil (just enough to lightly roast the potatoes)
Salt, to taste
A pinch of red chilli powder (optional)
1-2 green chillies, finely chopped (optional)

Instructions:

1. Boil the potatoes until fork-tender. Peel and cut them into bite-sized cubes.
2. Lightly roast the potatoes in a pan with minimal oil or butter. Add salt and a pinch of red chilli powder (if using) after roasting. Cook just until slightly golden on the outside. Set aside.
3. Boil the green peas until tender. Drain and add them directly to the hot roasted potatoes.
4. Let the peas and potatoes sit together while warm for a few minutes to allow their flavors to blend. Do not cook them further just gently mix while warm.
5. Once the mixture is lukewarm, add the chopped onion and tomato. Mix everything together gently.
6. Add green chillies if you like a bit of heat. Adjust salt as needed.
7. Serve with your favorite crackers — the crispiness perfectly complements the warm, soft salad.

By - Manha Fatima Khan
B.Tech (BT) 4th Semester



VOICES BEHIND THE PAGES



Dr. Amita Shakya
(Faculty Coordinator)

It is with great enthusiasm and pride that I welcome you to the very first edition of our departmental newsletter. This milestone is a testament to the creativity, commitment, and collaborative spirit that defines our academic community. At the heart of this initiative lies the remarkable contribution of our students. Their dedication, energy, and passion have breathed life into every page of this newsletter. From curating content to designing layouts, conducting interviews, and capturing moments—our students have shown what it means to lead with purpose and work with heart. This newsletter is more than just a collection of updates; it is a celebration of voices, ideas, and achievements. It reflects the vibrant pulse of our department and the shared journey of learning and growth we are all part of. I extend my deepest appreciation to every student who contributed to this release. Your hard work and enthusiasm have set a high standard and laid a strong foundation for future editions. I also thank the Director-AIB and my fellow faculty members for their support and encouragement throughout this process. Let this be the beginning of a tradition that inspires, informs, and connects us all. I invite everyone to engage with this platform—share your stories, celebrate your successes, and continue building a community that thrives on knowledge and creativity.



Putting together this edition has been more than just compiling events it's been about revisiting moments that made us proud, curious, challenged, and inspired. As a student editor, I've seen how much effort goes into every achievement, every initiative, and behind every name mentioned lies a story of dedication and growth. This newsletter is a snapshot of how far we've come not just as individuals, but as a department that constantly dares to explore more. I genuinely hope it sparks the same excitement in you as it did in me while curating it.

Vaishali Ketki
Editor, Johar Jeevan

When I was given the opportunity to work on this newsletter, I was intimidated, scared and determined to give it everything I had. I poured over every section, every alignment, every detail because I wanted it to feel intentional, not just informational. As it slowly came together, so did a quiet sense of pride. It may not be flawless but it speaks and that's what matters the most.

Manha Fatima Khan
Graphic Designer, Johar Jeevan




Johar Jeevan has been living in our minds for quite some time in scattered ideas, late conversations, and the urge to create something that feels like 'us'. As I finally sit down to pen it down, Johar Jeevan takes shape not as a polished product, but as a reflection of shared voices, everyday questions, and the rhythm of our lives. It's not perfect and that's the point. It's honest. It's ours.

Stuti Dubey
Editor, Johar Jeevan




CAMPUS PLACEMENTS







AMITY UNIVERSITY
CHHATTISGARH

AMITY INSTITUTE OF BIOTECHNOLOGY

HERE LEADING CORPORATES FIND THEIR FUTURE LEADERS











Pransha Nangalwar
(B.Tech BT 2023-25)
STRAND LIFE SCIENCES

Priya Thaware
(M.Sc BT 2023-25)
STRAND LIFE SCIENCES

K. Soniya Sahani
(B.Tech BT 2023-25)
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Supriya Rangani
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Rohit Waghmare
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NESTLE


Pransha Nangalwar
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NESTLE







Sourav Mahajan
(B.Tech BT 2023-25)
BIO-MENT









Rishi Pandey
(B.Tech BT 2023-25)
HIRE EDUCATION





Pransha Nangalwar
(B.Tech BT 2023-25)
LEARN BAY










Shweta Toppo
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STANZA LIVING


Manisha Agnihotri
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STANZA LIVING







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AMITY UNIVERSITY CHHATTISGARH CAMPUS

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