

BRAINWARE — PHARMA — CHRONICLES



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Brainware
Pharma Chronicles



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From the desk of Editor-in-Chief



It gives me immense pleasure to present *Brainware Pharma Chronicles, Volume 2, Issue 2 (e-ISSN No. 3049-2831)*, a reflection of the academic excellence, innovation, and collective achievements of the Department of Pharmaceutical Technology, Brainware University. This issue highlights the remarkable progress of our students and faculty through research accomplishments, industrial collaborations, academic initiatives, institutional recognitions, project-based learning achievements, placements, and other significant departmental activities.

The field of pharmaceutical sciences continues to evolve rapidly, driven by scientific advancements, technological innovations, and a growing emphasis on quality healthcare. As an academic institution, we remain committed to nurturing competent professionals by fostering research-oriented learning, practical exposure, critical thinking, and ethical values. Through continuous interaction with industry and academia, we strive to equip our students with the knowledge and skills required to meet the dynamic challenges of the healthcare and pharmaceutical sectors.

This edition of Pharma Chronicles also features recent developments in pharmaceutical sciences, regulatory updates, emerging research trends, and scholarly contributions from our faculty members and students. These articles and reports reflect our department's commitment to promoting scientific inquiry, lifelong learning, and academic excellence.

I extend my sincere appreciation to the Editorial Board, faculty members, student contributors, reviewers, and all those whose dedicated efforts have made this publication possible. Their enthusiasm and commitment continue to strengthen the academic culture of our department.

I hope this issue will serve as an informative, inspiring, and valuable resource for our readers. Let us continue to work together in our pursuit of excellence, innovation, and meaningful contributions to pharmaceutical education, research, and healthcare.



Editor-in-Chief

Pharma Chronicles

Prof. & HOD. Department of Pharmaceutical Technology

Dean, School of Medical and Allied Health Sciences

Brainware University





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Departmental Events & Activities

Industry Interface Programme for B. Pharm & M.Pharm Students



"Indian Knowledge Systems in Pharmaceutical Sciences: Bridging Tradition and Modern Medicine with Artificial Intelligence-Enabled Approaches" Date: March 6–7, 2026





The Department of Pharmaceutical Technology successfully hosted a two-day national conference focused on bridging traditional Indian medicine with modern, AI-enabled pharmaceutical approaches. Held in a hybrid format at the Vidyasagar Bhawan Auditorium, the event brought together nearly 400 attendees, including students, faculty, and 96 external delegates. Designed to promote academic excellence and scientific innovation, the conference featured keynote lectures from industry and academic experts, advanced scientific sessions, and student research presentations. The event served as a dynamic platform for knowledge sharing, effectively fostering meaningful dialogue and collaboration between established researchers and future pharmacy professionals.

An Industrial Visit for B. Pharm students at 'Stadmed Pvt. Ltd, South Dum Dum, Kolkata" Date: April 3, 2026



A focused industrial visit to Stadmed Pvt. Ltd. was organized to bridge the gap between theoretical learning and practical pharmaceutical operations for B. Pharm students. The full-day event allowed students to explore key industrial departments, including Production, Quality Control (QC), and Quality Assurance (QA). Participants observed modern machinery in action, exploring various stages of drug manufacturing, packaging, and quality testing procedures. They also gained a real-time understanding of Good Manufacturing Practices (GMP) and industrial safety protocols. Aligning with SDG 9 (Industry, Innovation, and Infrastructure), the visit featured an interactive session with company experts, providing students with valuable career insights and a comprehensive overview of real-world pharmaceutical workflows.

"Breaking the silence: Clinical Psychological Management of Early-age Sexual Trauma" Date: April 9, 2026



The Department of Pharmaceutical Technology, in collaboration with the Gender Sensitisation Cell and the Departmental Library, organized a vital seminar focused on the psychological consequences of early-age trauma and the importance of timely clinical intervention. The event featured an insightful lecture by resource person Ms. Surangana Ghosh, who addressed clinical management approaches, coping strategies, and professional counseling interventions. Designed to promote emotional well-being and institutional responsibility, the session included an interactive dialogue that encouraged students and staff to openly discuss these sensitive topics. The seminar received an encouraging response, successfully helping to reduce stigma

while reinforcing the institution's commitment to fostering a safe, inclusive, and empathetic campus environment.

"Artificial Intelligence Framework and Recent Innovations for Next Generation Pharmaceutical Development" Date: April 18, 2026



The Department of Pharmaceutical Technology organized an engaging and insightful seminar under the theme “**Mission AI**”, aimed at exploring the transformative role of Artificial Intelligence (AI) in modern pharmaceutical sciences. The programme focused on introducing students and faculty members to the rapidly evolving landscape of AI-driven technologies and their growing significance across pharmaceutical research, development, and healthcare.

The event featured an expert session by **Mr. Sourav Dhar**, who provided an informative overview of various AI frameworks, tools, and their practical applications in drug discovery and formulation development. His session highlighted how AI-based approaches can support faster decision-making, predictive analysis, optimization of pharmaceutical formulations, and identification of promising drug candidates.

The programme also encouraged participants to think beyond conventional approaches and recognize the potential of data-driven technologies, machine learning, predictive modelling, and computational approaches in addressing contemporary challenges in pharmaceutical research. The discussions emphasized how responsible and effective adoption of AI can complement conventional scientific methodologies and accelerate innovation.

Faculty Development Programme “Innovative Strategies Against Antimicrobial Resistance: Drug Design, Targeted Delivery, and AI Integration Possibilities” Date: April 24 – May 1, 2026



The Department of Pharmaceutical Technology, in association with Chromogen Bionourish Pvt. Ltd., organized a comprehensive seven-day Faculty Development Program (FDP) focused on recent advancements in antimicrobial research. Conducted in a hybrid mode, the event featured nine expert sessions led by renowned academicians and industry professionals, covering crucial topics such as antimicrobial resistance (AMR), nanotechnology, targeted delivery systems, herbal therapeutics, and AI-based healthcare solutions. Attended by over 160

internal and external faculty members, the program successfully enriched participants' scientific knowledge while fostering interdisciplinary learning and future academic-industry collaborations.

"Farewell Programme 2026" Date: April 30, 2026



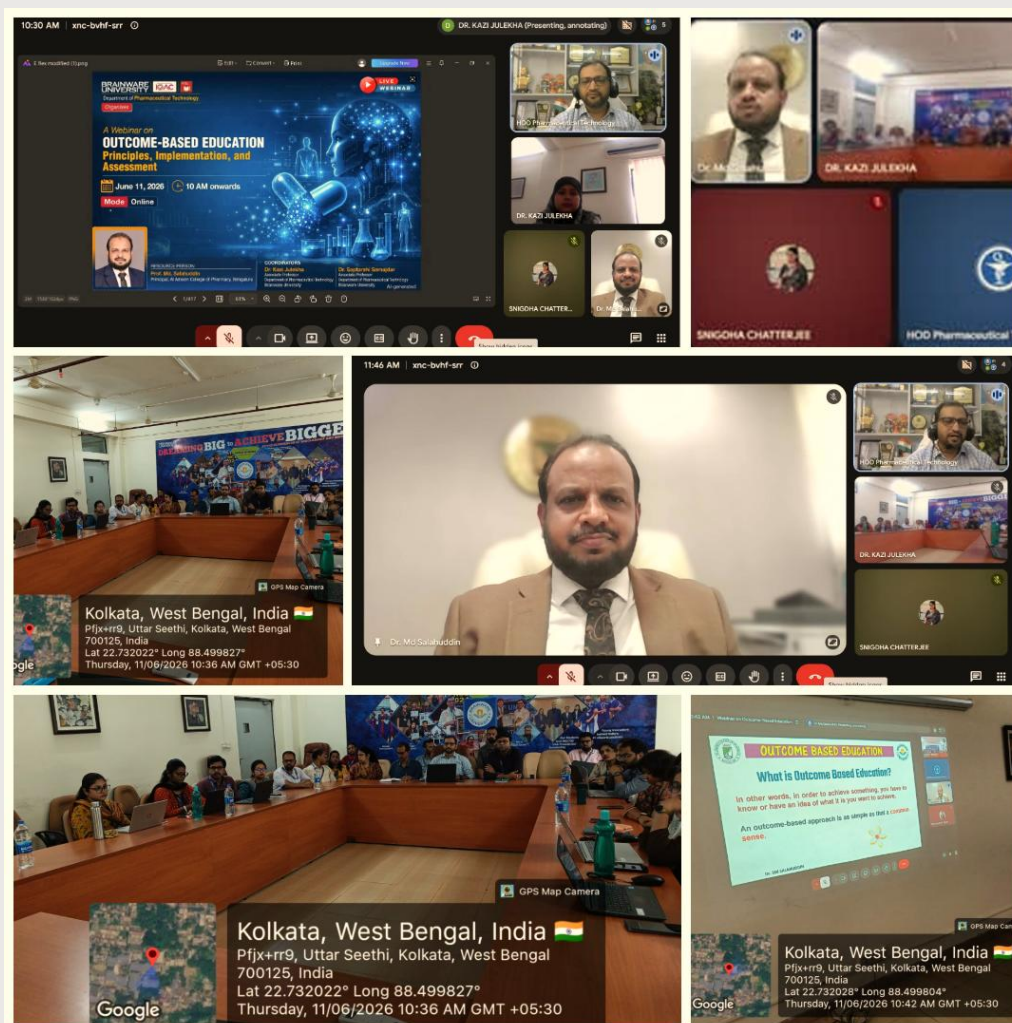
The **Department of Pharmaceutical Technology** organized a memorable and heartfelt **farewell programme** to bid a warm and affectionate goodbye to the graduating batch of students as they prepared to embark on a new chapter of their academic and professional lives. The event was a celebration of the students' journey through the department, recognizing their achievements, cherished memories, friendships, and the lasting relationships they had built during their years at the university.

The event featured a vibrant array of cultural programmes, showcasing the creativity and talents of the students. A specially prepared video presentation added an emotional dimension to the celebration, taking everyone on a journey through memorable moments, academic milestones, celebrations, and friendships shared throughout the students' university life.

As a token of appreciation and remembrance, mementos were presented to the outgoing students, symbolizing the cherished memories and enduring association they would carry with them beyond the university. The gesture reflected the department's affection and appreciation for the graduating students and their contributions to the academic community.

The farewell programme concluded on a poignant and emotional note, with faculty members and junior students extending their warmest wishes to the outgoing batch. They were encouraged to carry forward the values, knowledge, skills, and memories gained during their university years as they step into new academic, professional, and personal opportunities.

Webinar on Outcome-Based Education



The Department of Pharmaceutical Technology, Brainware University, in association with the Internal **Quality Assurance Cell (IQAC)**, successfully organized an insightful online webinar on **11 June 2026** on the theme “Outcome-Based Education: Principles, Implementation, and Assessment.” The academic session was designed to strengthen participants’ understanding of contemporary educational practices and the systematic approach required to align teaching, learning, and assessment with clearly defined learning outcomes.

The session was delivered by **Prof. Md. Salahuddin, Principal, Al Ameen College of Pharmacy, Bengaluru**, who brought valuable academic and professional perspectives to the discussion. Through the webinar, Prof. Salahuddin elaborated on the fundamental principles of Outcome-Based Education (OBE) and highlighted its significance in developing learner-centric educational frameworks.

The session provided participants with meaningful insights into the implementation strategies of OBE, including the alignment of course objectives, learning outcomes, teaching methodologies, and assessment processes. Particular emphasis was placed on the importance of designing effective academic practices that enable students to progressively achieve the expected competencies and demonstrate measurable learning outcomes.

Departmental Achievements

Paper Publication Records

Total Departmental Publications from

January 2026 to June 2026:

Teacher-Student Publication Impact factor

(I.F. JCR. Clarivate) wise from January 2026 to June 2026

Title of paper	Name of the author/s	Name of journal	Impact Factor
Therapeutic potential of prebiotics in modulating postprandial GLP-1, GLP-2, and glucose homeostasis in type 2 diabetes mellitus: Targeting gut dysbiosis and insulin resistance	Zainab Irfan et al.	Diabetes Research and Clinical Practice	7.4
Dengue and natural products: unveiling nature's potential in antiviral drug discovery	Priya Manna, Purna Chandra Pal*	Phytochemistry Reviews	6.3
Troloxerutin as a bioactive flavonoid: Insights into its anticancer mechanisms and therapeutic applications	Priya Manna, Srijita Chatterjee, Shayeri Chatterjee Ganguly et al.	European Journal of Medicinal Chemistry	5.9
Extraction, characterization and evaluation of jute (Corchorus olitorius) leaf polysaccharide as a binding agent for matrix tablet formulation	Olivia Sen, Sreejan Manna* et al.	RSC Pharmaceutics	5.5
Development and application of PEG-based hydrogels by loading Asparagus racemosus-mediated silver nanoparticles for enhancing in vivo wound healing abilities	Priya Das et al.	RSC Pharmaceutics	5.5
Oleosomes as emerging Next-Generation carrier for topical drug delivery	Shayeri Chatterjee Ganguly, Piyali Khamkat, Priya Manna et al.	International Journal of Pharmaceutics	5.2
Functional Implications of Marine Biosurfactants and their Therapeutic Potential Against Alzheimer's Disease	Zainab Irfan, Sumon Giri et al.	Food Science and Nutrition	5
Pyrazoline based privileged scaffolds in modern drug design: Synthetic innovations, structure activity relationships,	Rahit Paul, Paramita Ganguly et al.	Journal of Molecular Structure	4.7

and emerging therapeutic opportunities			
Biogenic Silver Nanoparticles-Reinforced Carboxymethyl Chitosan-Based Modified Gauze as Multifaceted Wound Care Material	Priya Das et al.	Macromolecular Bioscience	4.2
Silent action of dopamine receptor antagonist in synaptic remodelling: Molecular basis of tardive dyskinesia due to chronic antipsychotic exposure	Wriha Chakraborty et al.	Progress in Neuro-Psychopharmacology and Biological Psychiatry	4.2
Design, Optimization and Pharmacokinetic Profiling of BCS Class II Drug Loaded Oral Self Nanoemulsifying System	Ayon Dutta et al.	AAPS PharmSciTech	4
Targeting microbiota–gut–brain axis with phytochemicals: a mechanistic roadmap for dementia	Priya Manna*, Shayeri Chatterjee Ganguly, Banani Mondal, Aditi Maity, Srijita Chatterjee et al.	Metabolic Brain Disease	3.8
Recent Advances of Hydrogels in 3D Cell Culture: A New Dimension in Biomedical Research	Shiuli Bera, Moumita Kundu et al.	Polymers for Advanced Technologies	3.4
Oxygen Free Radicals and Cancer: Protective Role of Endogenous Antioxidants and Natural Compounds	Zainab Irfan, Sumon Giri et al.	Anti-Cancer Agents in Medicinal Chemistry	3
Design and Assessment of Posaconazole-Loaded Transfersomal Gel for Antifungal Efficacy Against Candida Albicans and Aspergillus Niger	Piyali Khamkat et al.	Journal of Pharmaceutical Innovation	2.7
Fabrication and Characterization of Polymeric Nanoparticles for Efficient and Sustained delivery of Acyclovir for Antiviral Therapy and In-silico Study Using PK-Sim Software	Sreejan Manna et al.	Journal of Pharmaceutical Innovation	2.7
Design and Optimization of Glimepiride Loaded Lipid Nanocarriers: Characterization and In vivo Evaluation	Ayon Dutta et al.	Journal of Pharmaceutical Innovation	2.7

Nanofibres: a promising approach in drug delivery systems	Shayeri Chatterjee Ganguly et al.	International Journal of Polymeric Materials and Polymeric Biomaterials	2.6
Molecular Mechanisms of New and Re-purposed Synthetic as well as Natural Bioactive Molecules Against Breast Cancer: Elucidating Targets, Signaling Pathways, Resistance Modulation, and Synergistic Combinations for Prevention	Saptarshi Samajdar, Kazi Julekha*, Subhayan Mishra and Deepsa Guhu	Current Molecular Medicine	2.5
In-vivo hepatoprotective, antidiabetic, and antiinflammatory activities of the whole plant methanolic extract of <i>Neptunia prostrata</i> Linn	Priya Das et al.	Zeitschrift für Naturforschung C	2.1
A Comprehensive Review on Network-Pharmacognosy-Based Decoding of Phytochemical Synergy in Complex Diseases	Paramita Ganguly et al.	Revista Brasileira de Farmacognosia	1.7
Phytochemical Composition and Pharmacological Potential of <i>Plantago</i> species	Priya Manna et al.	The Natural Products Journal	1.2
Design and Optimization of Guar Gum-Carboxymethyl Cellulose-Based Gastro-Retentive Floating Tablets of Levofloxacin through Melt Granulation Technique	Sreejan Manna*, Baishnabdas Pathak, Olivia Sen et al.	Advances in Pharmacology and Pharmacy	0.9
Mitochondrial dynamics and neuronal death in neurodegenerative diseases	Ria Dutta et al.	Neurophysiology	0.6
Formulation and characterization of a micro-transferosomal cream incorporating <i>Uria picta</i> extract for enhanced topical anti-inflammatory efficacy	Saptarshi Samajdar*, Prasenjit Mondal et al.	International Journal of Ayurvedic Medicine	0.2
<i>Boswellia serrata</i> Gum-Derived Polysaccharide Beads for Enhanced Antioxidant Stabilization and Protection	Saptarshi Samajdar*, Baisnabdas Pathak et al.	International Journal of Ayurvedic Medicine	0.1

Faculty Achievements

A new initiative to 'Serve Bengal' in collaboration with the Indian Red Cross Society



The Department of Pharmaceutical Technology, Brainware University, proudly congratulates **Ms. Arpita Biswas, Associate Professor**, on securing the Second Position in the Oral Presentation category at the 1st International Seminar, **PHARMAiCON 2026**, organized by **ARAM Institute, Ranchi, Jharkhand**, on **24 January 2026**.

Ms. Biswas delivered her presentation on the thought-provoking theme, "From Ancient Remedies to Advanced Algorithms: AI's Role in Transforming Drug Design and Holistic Medicine." The presentation explored the evolving interface between traditional medicinal knowledge and contemporary technological advancements, highlighting the transformative potential of Artificial Intelligence (AI) in modern drug design, pharmaceutical research, and holistic approaches to healthcare. Her recognition at an international scientific forum reflects her strong academic expertise, innovative perspective, and commitment to exploring emerging technologies in pharmaceutical sciences. The achievement also highlights the importance of integrating interdisciplinary knowledge, digital technologies, and innovative research approaches to address the evolving challenges of healthcare and drug discovery.

Participation and recognition at such scientific platforms provide valuable opportunities for academic professionals to exchange knowledge, engage with researchers from diverse backgrounds, and contribute to contemporary scientific discourse. Ms. Biswas's achievement therefore represents not only an individual accomplishment but also a source of immense pride for the Department of Pharmaceutical Technology and Brainware University.

The Department extends its heartfelt congratulations to Ms. Arpita Biswas for this distinguished accomplishment and wishes her continued success in her academic, research, and professional endeavours. Her achievement serves as an inspiration to both faculty members and students to pursue academic excellence, innovative research, and meaningful contributions to the pharmaceutical sciences.

Student Achievements

Congratulations to Our Bright Minds



The Department of Pharmaceutical Technology, Brainware University, proudly extends its heartiest congratulations to our outstanding student, **Mr. Tuhin Subhra Jana**, for his remarkable achievement in the **NIPER Entrance Examination**. **Securing an impressive All India Rank (AIR) 80**, he has demonstrated exceptional academic ability, focused preparation, perseverance, and a strong commitment to excellence in the field of pharmaceutical sciences.

Mr. Jana's achievement brings immense pride to the Department of Pharmaceutical Technology and Brainware University. It also serves as an inspiration to fellow students, encouraging them to set ambitious academic goals and pursue competitive examinations with confidence, consistency, and determination.

The Department recognizes this accomplishment as a reflection of the strong academic foundation and supportive learning environment provided to its students. Success in national-level examinations such as NIPER represents an important milestone in a student's academic journey and opens doors to advanced education, research, and professional opportunities in pharmaceutical sciences.

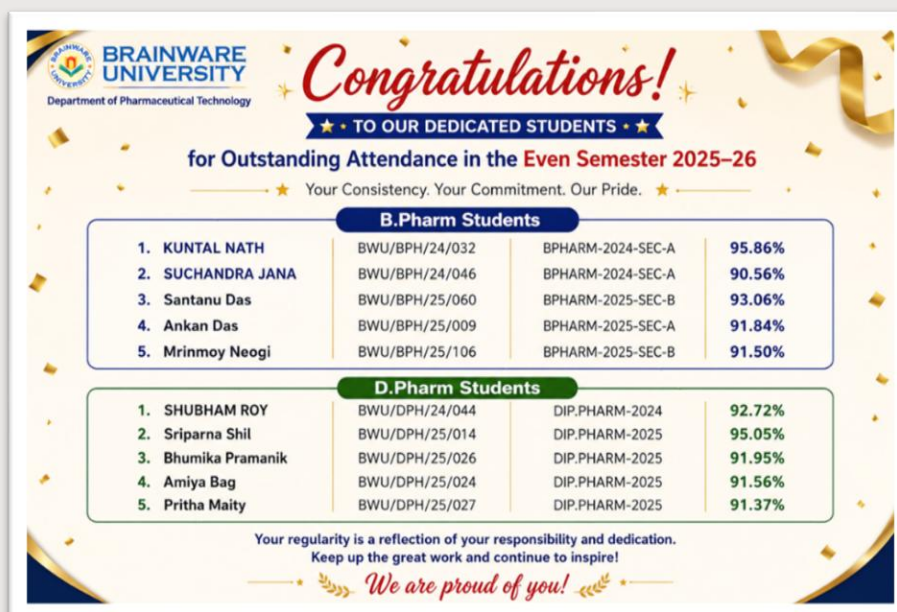
The Department extends its warmest congratulations to Mr. Tuhin Subhra Jana on this outstanding achievement and wishes him continued success in the next phase of his academic journey. May his dedication and achievements continue to inspire his peers and pave the way for a bright, successful, and fulfilling future in pharmaceutical sciences.

PBL Stars of the Session(2025-26-odd)

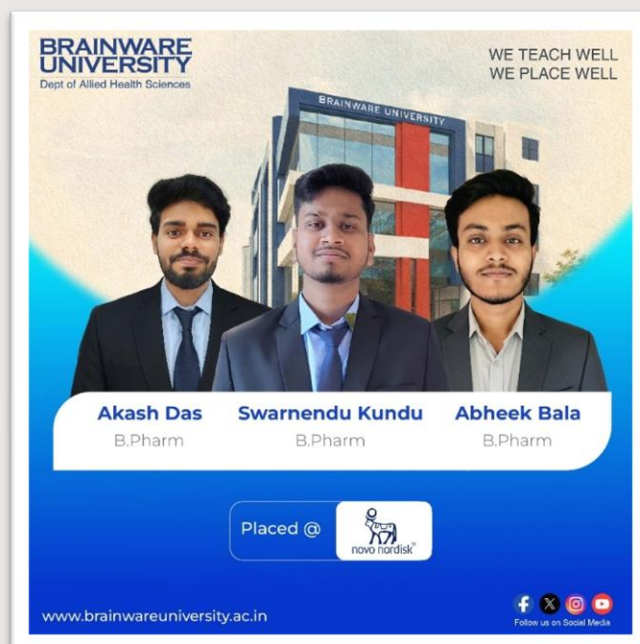


The Department of Pharmaceutical Technology, Brainware University, proudly recognizes the outstanding achievements of students in Project-Based Learning (PBL) during the Even Semester 2025–26. The top-ranked projects showcased excellence in research, innovation, and practical problem-solving across diverse areas of pharmaceutical sciences. These accomplishments reflect the students' scientific aptitude, creativity, and commitment to academic excellence under the dedicated mentorship of the faculty members. The department congratulates all the winners and mentors for their remarkable contributions and wishes them continued success in their future academic and research endeavors.

Celebrating Academic Discipline: Student Attendance Excellence



From Classroom to Career: Students Placement Highlights – 2026



Congratulations to our B.Pharm students – Akash Das, Swarnendu Kundu, and Abheek Bala on securing placements at **Novo Nordisk**. Your dedication, perseverance, and hard work have culminated in this remarkable achievement. Wishing you a successful and fulfilling career ahead. **Heartiest congratulations and best wishes!**



Congratulations to our 16 B.Pharm students on securing placements at **Hetero Biopharma**. Your dedication and perseverance have led to this remarkable achievement. Wishing you all a successful and rewarding professional journey ahead. **Congratulations and best wishes!**

"Achievements of Bright Minds: Champions of Bengal Hackathon 2026"



The Department of Pharmaceutical Technology proudly extends its heartiest congratulations and warmest appreciation to a team of exceptionally talented student innovators for their remarkable achievement as the Champions of the **"Bengal Hackathon 2026,"** held at the prestigious **Triguna Sen Auditorium, Jadavpur**. Their outstanding performance reflects the creativity, technical competence, collaborative spirit, and determination that continue to define the student community of Brainware University. Their success at Bengal Hackathon 2026 represents more than just a competition victory. It demonstrates the ability of our students to translate ideas into innovative solutions, apply technical knowledge to real-world challenges, and work collaboratively under competitive conditions. Such achievements highlight the importance of interdisciplinary learning, creativity, technological proficiency, and an entrepreneurial mindset in shaping the next generation of professionals.

The Department recognizes this accomplishment as a proud milestone and a reflection of the university's continued efforts to encourage innovation, experiential learning, technological exploration, and student-led problem solving.

The Department of Pharmaceutical Technology congratulates **Rahul Sikder, Tithi Moni Das, Poulami Sasmal, Sk Samiruddin, and Md. Titas** on this outstanding accomplishment and wishes them continued success in their future academic, professional, and innovative pursuits. Their victory has brought immense pride and recognition to Brainware University and stands as a shining example of what dedication, teamwork, and innovation can achieve.

Industrial Training at Glenmark Pharmaceuticals, Sikkim



The Department of Pharmaceutical Technology, Brainware University, places strong emphasis on industry-oriented learning by facilitating **industrial training programmes** for its students across reputed pharmaceutical organizations. As part of this initiative, students successfully underwent hands-on industrial training at leading pharmaceutical companies such as **Glenmark, Inventland Research Laboratories Private Limited, Pharma Deep Remedies**, and other established industry units.

During the training, students gained valuable practical exposure to real-time pharmaceutical operations, including manufacturing processes, quality control and quality assurance practices, regulatory compliance, documentation, and industrial safety standards. The experience enabled them to bridge the gap between theoretical knowledge acquired in classrooms and practical application in an industrial environment. Interaction with industry professionals further enhanced their understanding of current industry expectations, technological advancements, and professional ethics.

This industrial training programme significantly contributed to the development of technical skills, confidence, and professional competence among students, preparing them for future careers in the pharmaceutical industry.

Pharmaceutical Regulatory Updates

List of New Drugs approved in the year 2026 till date

Category	Drug Name	Indication/ADR	Regulatory Action	Date
New Drug Approval	Brexiprazole Tablets (0.25/0.5/1/2/3/4 mg)	Treatment of schizophrenia	Marketing approval granted by CDSCO	16.02.2026
New Drug Approval	Brexiprazole Bulk Drug	Not applicable (Bulk Drug)	Bulk drug approval	24.02.2026
New Drug Approval	Sotorasib 240 mg Film-Coated Tablets	KRAS G12C-mutated locally advanced/metastatic NSCLC	Marketing approval granted by CDSCO	10.03.2026
ADR Update	Carbimazole	Agranulocytosis	Inclusion of ADR in PIL/Promotional Literature	February 2026
ADR Update	Doxycycline	CNS side effects (Restlessness, Anxiety, Irritability, Nervousness & Dizziness)	Update Package Insert (PI), PIL & Promotional Literature	17.02.2026
ADR Update	Doxycycline	Fixed Drug Eruption (FDE)	Update Package Insert & Promotional Literature	04.02.2027
ADR Update	Itraconazole	Photosensitivity	Update Package Insert & Promotional Literature	04.02.2027
ADR Update	Losartan	Muscle Spasm	Include ADR in Package Insert & Promotional Literature	29.05.2023

Source: Central Drugs Standard Control Organization (CDSCO). New Drugs Approved by CDSCO (2026). Ministry of Health and Family Welfare, Government of India. Available at: <https://cdsco.gov.in> (Accessed on: 07 August 2026, by Ms. Teasha Chakraborty, DIC in charge, Department of Pharm. Tech., Brainware University).

Ban on 10 Irrational Fixed-Dose Combinations (FDCs): A Government Initiative to Enhance Drug Safety

Name of the Drug (FDC)	Reason for Prohibition	Report/Regulatory Decision
Acetyl Salicylic Acid + Ethoheptazine	No therapeutic justification; available evidence does not support rationality of the combination.	Manufacture, sale and distribution prohibited with immediate effect.
Aloe Vera + Jojoba Oil + Wheat Germ Oil + Tea Tree Oil	No therapeutic justification; expert committee considered the combination irrational.	Prohibited for human use with immediate effect.
Amoxicillin + Serratiopeptidase + Lactobacillus Sporogenes	No sound clinical evidence for concurrent use; not aligned with standard therapeutic guidelines; therapeutically unjustified.	Prohibited with immediate effect.
Dicyclomine + Paracetamol + Clidinium Bromide + Chlordiazepoxide	Duplication of anticholinergic activity; combination considered irrational and therapeutically unjustified.	Prohibited with immediate effect.
Amoxicillin + Serratiopeptidase	Pharmacodynamically irrelevant; lack of clinical evidence; not supported by treatment guidelines.	Prohibited with immediate effect.
Aloe Extract + Allantoin + Alpha-Tocopherol Acetate + D-Panthenol + Vitamin A	No therapeutic justification; evidence does not support rationality of the combination.	Prohibited with immediate effect.
Aloe Extract + Vitamin E + Dimethicone + Glycerine	Considered irrational; no therapeutic justification for fixed-dose combination.	Prohibited with immediate effect.
Aloe Vera + Jojoba Oil + Vitamin E	Lack of supporting scientific evidence and therapeutic justification.	Prohibited with immediate effect.
Aloe Vera + Orange Oil	Irrational combination with no therapeutic justification.	Prohibited with immediate effect.
Aloe Vera + Vitamin E + Herbal Components	Product inadequately defined and not standardized; evidence does not support rationality.	Prohibited with immediate effect.

Source: Ministry of Health and Family Welfare, Government of India. Gazette Notifications S.O. 3068(E)–3077(E), dated 11 June 2026, notifying the prohibition of 10 irrational Fixed-Dose Combinations (FDCs) under Section 26A of the Drugs and Cosmetics Act, 1940 Accessed on: 02 August 2026 by Ms. Arpita Biswas, Associate editor, Brainware Pharma Chronicles).

Adverse Drug Reaction (ADR) Notifications Reported in India (January–June 2026)

Sl. No.	Drug Name	ADR Detected	Regulatory Recommendation	Release Date
1	Carbimazole	Agranulocytosis	Include Agranulocytosis as an ADR in the Prescribing	February 2026

			Information Leaflet (PIL) and Promotional Literature.	
2	Doxycycline	CNS side effects (Restlessness, Anxiety, Irritability, Nervousness, Dizziness)	Update the Package Insert (PI), PIL, and Promotional Literature to include the reported CNS adverse effects.	17 February 2026
3	Doxycycline	Fixed Drug Eruption (FDE)	Include Fixed Drug Eruption (FDE) in the Package Insert and Promotional Literature.	04 February 2027
4	Itraconazole	Photosensitivity	Update the Package Insert and Promotional Literature to include Photosensitivity as an ADR.	04 February 2027
5	Losartan	Muscle Spasm	Include Muscle Spasm as an ADR in the Package Insert and Promotional Literature.	29 May 2023

Source: Central Drugs Standard Control Organization (CDSCO), Ministry of Health and Family Welfare, Government of India. Adverse Drug Reaction (ADR)-Related Notifications, January–June 2026. Available at: <https://cdsco.gov.in/opencms/opencms/en/Notifications/Adverse-Drug-Reaction-related-Notifications/> (Accessed on 03 August 2026, by Ms. Arpita Biswas, Associate editor, Brainware Pharma Chronicles).

Spurious Drugs Declared in India (January–June 2026)

Sl No.	Name of Drugs/medical device/cosmetics	Batch No.	Date of Manufacture	Date of Expiry	Testing lab, State	Reason for failure	Remarks
1	Ursodeoxycholic Acid Tablets IP	GTF2281A	Aug-2024	Jul-2026	CDSCO Labs, CDL, Kolkata	Under Investigation	As per label claim, has informed, the impugned batch of the product has not been manufactured by them.
2	Azithromycin USP/EP/IP	129-250324-1	Mar-2025	Mar-2029	CDSCO Labs, CDTL, Mumbai	Under Investigation	The firm claimed that the batch was not manufactured by them

3	Trypsin-Chymotrypsin Tablets	2KU6L050	Dec-2024	Nov-2027	CDSCO Labs, CDL, Kolkata	Under Investigation	The impugned batch of the product has not been manufactured by them.
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Source: Compiled from the List of Drugs, Medical Devices, Vaccines and Cosmetics Declared as Spurious published by the Central Drugs Standard Control Organization (CDSCO), Ministry of Health and Family Welfare, Government of India (January–June 2026). Available at: CDSCO – NSQ and Spurious Drug Notifications (Accessed on 07 August 2026, by Ms. Arpita Biswas, Associate editor, Brainware Pharma Chronicles).

Herbal Formulation Updates: Recent Research and Therapeutic Insights

Year	Research Highlight	Herbal Formulation/Herb	Therapeutic Application	Formulation Type	Reference
2024	Physical, phytochemical and sensory evaluation of herbal powdered beverages	Elephant ginger, Garlic, Citronella	Hypertension	Instant herbal powdered beverage	[1]
2025	Anti-allergic potential of <i>Ceriops decandra</i>	<i>Ceriops decandra</i>	Allergic disorders	Leaf extract	[2]
2024	Herb–drug interaction of Diabecon with losartan	Diabecon® (Polyherbal)	Diabetes mellitus	Polyherbal tablet	[3]
2024	Herbal and natural supplements for sleep improvement	Valerian, Hops, Chamomile, Kava, etc.	Sleep disorders	Capsules, teas, tinctures, extracts	[4]
2024	Shenglin decoction during concurrent chemoradiotherapy	Shenglin Decoction	Acute severe lymphopenia	Herbal decoction	[5]
2024	Australian indigenous edible halophytes as salt substitutes	Australian edible halophytes	Sodium reduction	Powdered salt substitute	[6]
2024	Metabolomic profiling of <i>Tinospora cordifolia</i>	<i>Tinospora cordifolia</i>	Immunomodulation	Decoction, extracts, capsules, syrups	[7]
2025	Herbal nano-hydrogel for wound healing	Rhubarb	Wound healing	Nano-hydrogel	[8]

2025	Polyherbal formulation for functional dyspepsia	Polyherbal formulation (Dizester®)	Functional dyspepsia	Tablet/Capsule	[9]
2025	Bioactive phytoconstituents from South African medicinal plants	South African medicinal plants	Inflammation & oxidative stress	Teas, powders, ointments	[10]
2025	Supercritical CO ₂ extraction and microencapsulation	<i>Pericarpium Citri Reticulatae</i> – <i>Fructus Aurantii</i>	Digestive & respiratory disorders	Microencapsulated herbal powder	[11]
2026	Ethnobotany and therapeutic uses of Chasteberry	<i>Vitex agnus-castus</i>	PMS, menopausal symptoms	Capsules, tablets, tinctures	[12]
2026	Molecular targets of <i>Tinospora cordifolia</i>	<i>Tinospora cordifolia</i> (Giloy)	Diabetes & metabolic disorders	Extracts, capsules, decoction	[13]
2026	Essential oil chemistry of Lemon Balm	<i>Melissa officinalis</i>	Anxiety, stress & insomnia	Essential oil, tea, capsules	[14]

Information by, Ms. Arpita Biswas, Associate editor, Brainware Pharma Chronicles.

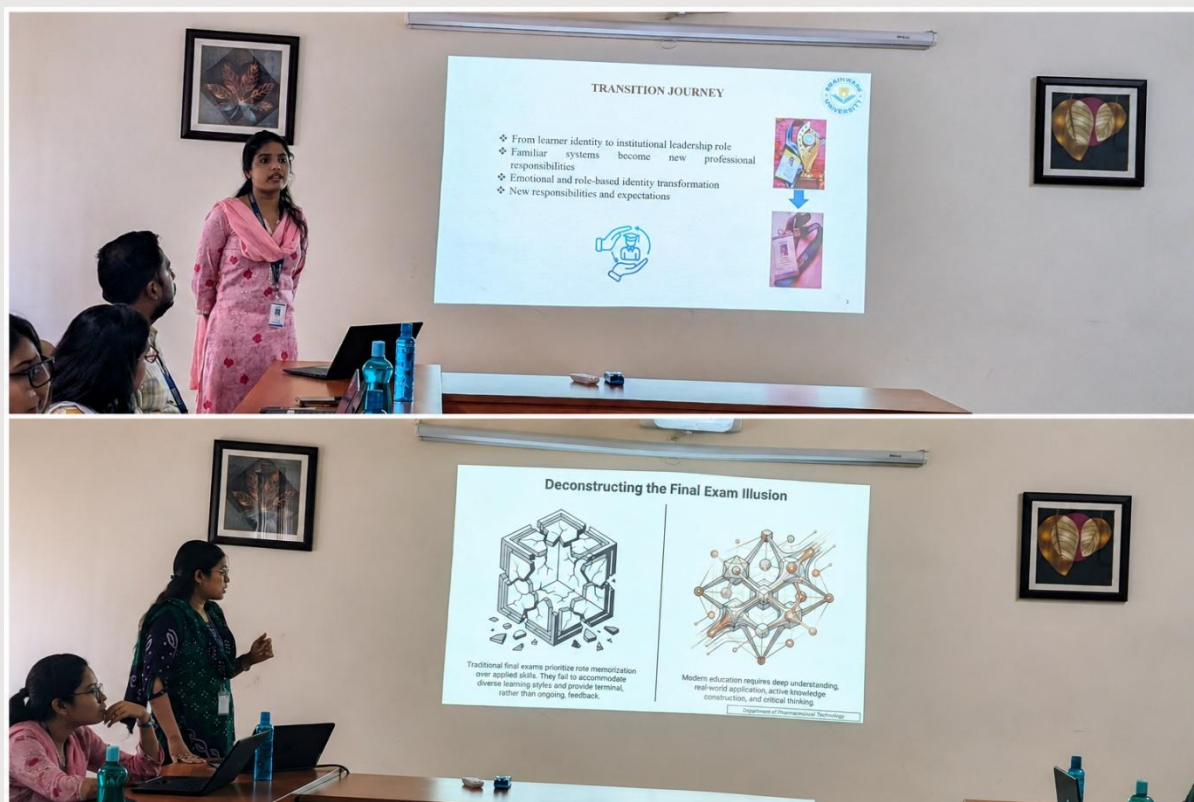
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Departmental Best Practices

Knowledge Connect: Teacher's Talk



Teacher's Talk is a unique academic initiative launched by Prof. (Dr.) Prasenjit Mondal, Head, Department of Pharmaceutical Technology, Brainware University, to promote interactive learning beyond the classroom. The series provides a platform for faculty members to share their expertise, professional experiences, emerging research trends, and practical insights, fostering critical thinking, academic curiosity, and holistic development among students.

Academic–Industry Partnership: MoU with Aspire Scientific (09 June 2026)



The Department of Pharmaceutical Technology, Brainware University, entered into a significant academic–industry partnership by signing a **Memorandum of Understanding (MoU) with Aspire Scientific on 09 June 2026**. This collaboration marks an important step towards strengthening industry–academia interaction and creating meaningful opportunities for students, faculty members, and researchers in the field of pharmaceutical sciences. The MoU has been established with the objective of promoting **hands-on technical training, skill development, advanced analytical instrumentation, research collaboration, industrial exposure, and knowledge exchange**.

A major focus of the collaboration is to provide students with exposure to **industry-oriented practices, emerging technologies, analytical methodologies, and professional work environments**. This initiative represents the Department of Pharmaceutical Technology’s continued commitment to **experiential learning, industry-integrated education, and professional skill enhancement**. By bringing academic learning closer to real-world industrial requirements, the collaboration with Aspire Scientific is expected to help bridge the gap between theoretical education and professional practice, ultimately fostering **innovation, employability, career readiness, and excellence in pharmaceutical sciences**.

Driving Discovery: Launch of Departmental Research consultancy services for collaborative innovation



BRAINWARE UNIVERSITY

Department of Pharmaceutical Technology

PRECISION RESEARCH CONSULTING SERVICES




Sl. No.	Services	Price in INR (with GST)
1	Qualitative and Quantitative Phytochemical analysis by HPTLC Documentation System	1770/Sample* (Extracts and conditions of TLC need to be provided)
2	Antioxidant Assay (DPPH Assay and Hydrogen Peroxide Assay)	1180/Sample#
3	Antidiabetic Assay (α -Amylase assay)	2360/Sample#
4	Anti-inflammatory Assay (BSA and Egg albumin assay)	1180/Sample#
5	Anti Microbial Assay (For selected Bacteria [<i>E.coli</i> , <i>B.subtilis</i> , <i>B.cereus</i> , <i>P.aureginosa</i> , <i>S.typhi</i> , <i>S.aureus</i>] and Fungi [<i>C.albicans</i> , <i>A.niger</i>])	1180/Microbe/Sample#
6	Anthelmimthic Assay	1770/Sample#
7	Proteolytic Assay	1180/Sample#
8	Determination of Particle Size upto μm range (Quasmo Microscope)	354/Sample#
9	Stability studies of formulations as per ICH Guidelines (Long term and Accelerated)	2360/month/Sample#
10	Extraction of herbal products using Microwave assisted extraction and Ultrasonic extraction with phytochemical screening	590/Extracts (MAE) 354/Extracts(USE)
11	Tablet Punching with evaluation (Thickness, Hardness, Friability, Weight Variation, Disintegration)	590/50 Tablets *(Drug and Excipients to be provided by the client)
12	Tablet Punching with evaluation (Thickness, Hardness, Friability, Weight Variation, Dissolution, Disintegration, Drug Content)	1770/50 Tablets *(Drug and Excipients to be provided by the client)
13	QSAR Model Development	590 per model
14	Molecular Docking, ADME, Toxicity Prediction	1180/5 compound *(PDB ID, Compounds in .cdx form needed to be provided)
15	Network Pharmacology	1180/10 compound (SMILES code needs to be provided)
16	Method Development as per ICH guidelines (HPLC and UV)	23600/sample *(API & marketed formulation need to be provided)
17	Method Development as per ICH guidelines (HPLC and UV) with Forced degradation studies	35400/sample *(API need to be provided)
18	Isolation of Pure natural products for provided extracts.	23600/sample#
19	Evaluation of crude drugs (Total Phenolics, Total Alkaloid, Total Flavonoids, Total Aldehydes, Ash value, Extractive value, Morphological and Microscopic Studies)	1180/Sample#
20	Synthesis of derivatives by microwave synthesizer	2360/sample *(Scheme to be provided) 5900/sample *(with Scheme)



We also invites students/Scholars for short term projects upto 30 days

Pricing as per plan to be provided by the student/scholar





#Solubility profile of the samples are need to be provided.

The Department of Pharmaceutical Technology has launched its Precision Research Consulting Services, offering over 20 specialized analytical, formulation, and bioassay services to support collaborative innovation in academia and industry.

Advanced Instrumentation Facilities



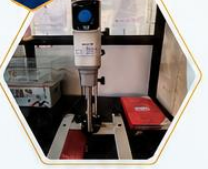
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  FOURIER-TRANSFORM INFRARED SPECTROSCOPE MODEL: BRUKER ALPHA II	  UV- VIS SPECTROPHOTOMETER MODEL: SHIMADZU 1900I	  HIGH PERFORMANCE LIQUID CHROMATOGRAPH MODEL: WATERS 1525 WITH PDA DETECTOR	  LYOPHILIZER MODEL: BIO TECHNICAL RESOURCES	  PROBE SONICATOR MODEL: LABMAN PRO 650
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  TABLET DISSOLUTION APPARATUS MODEL: LABINDIA DS 8000	  COMPUTER FOR CADD MODEL: HP Z7 (32GB RAM; 1TB SSD; QUATTRO A2000 GPU; INTEL I9 12400)	  MULTIPLE POSITION MAGNETIC STIRRER MODEL: LABTRONICS LT-90	  HPTLC ASPIRE SCIENTIFIC	  HUMIDITY CHAMBER MODEL: REMI CHM 6 PLUS
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Faculty Insights

Current Perspectives in Pharmacy

Data Science: The Backbone of a Data-Driven Pharma Tech Career

Ms. Arpita Biswas,
Associate professor, Dept. of pharm. Tech.
Brainware University

Data Science is a key driver of the modern pharmaceutical industry, transforming complex data into actionable insights. It integrates statistics, computer science, artificial intelligence (AI), and machine learning (ML) to support informed decision-making. Its applications span drug discovery, clinical development, manufacturing, regulatory affairs, and healthcare. By leveraging digital technologies, data science enhances operational efficiency and accelerates pharmaceutical innovation. Ultimately, it contributes to improved patient outcomes and advances precision healthcare.

Data science has revolutionized the pharmaceutical industry by accelerating drug discovery, clinical research, manufacturing, and healthcare innovation. In drug discovery, it employs predictive modelling, virtual screening, Quantitative Structure–Activity Relationship (QSAR) analysis, and AI-assisted molecular design to identify promising drug candidates while reducing development time and costs.

During clinical trials, machine learning enables efficient analysis of patient data, optimizes trial design, predicts treatment outcomes, and supports the detection of adverse events, improving both trial efficiency and regulatory compliance.

In pharmaceutical manufacturing, data science enhances Process Analytical Technology (PAT), Quality by Design (QbD), predictive maintenance, and real-time process monitoring to ensure consistent product quality and support Industry 4.0 practices.

The increasing availability of electronic health records (EHRs), real-world evidence (RWE), genomics, wearable devices, and digital health data has created a growing demand for professionals skilled in AI, programming, cloud computing, and data analytics. Consequently, data science has become a highly promising career pathway in Pharma Tech, driving precision medicine, personalized healthcare, faster drug development, and data-driven innovations that improve patient care and public health.

Thus, at Brainware University, AI Research & Development Cell (AIRDC), plays a pivotal role in collaboration with *atiit* in strengthening faculty competencies through a 6-day Faculty Development Programme (FDP) titled "AI for Educators: Competency Enhancement Programme." The programme is designed to equip faculty members with practical knowledge and hands-on experience in using advanced AI tools for teaching, research, academic administration, and content development. By promoting the effective integration of AI into everyday academic activities, the initiative enhances teaching quality, improves productivity, and fosters a culture of innovation and technology-driven education across the university.

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Department of Pharmaceutical Technology Earns NABET–QCI Rating for Undergraduate Pharmacy Programme



The Department of Pharmaceutical Technology, Brainware University, Ramkrishanapur Road, Barasat, Kolkata, has been rated among the Pharmacy Institutions offering Undergraduate (UG) Programmes under the prescribed NABET Rating Framework. The recognition has been awarded following a comprehensive assessment conducted by the National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI). This prestigious achievement reflects the department's unwavering commitment to academic excellence, quality education, continuous improvement, and the development of competent pharmacy professionals.

Upcoming Event

Hands-on Workshop on Computational Biology & In Silico Drug Design: An Insight into Molecular Docking and Molecular Dynamics

29 September – 1 October 2026

A Hands-on Workshop on

Computational Biology & In Silico Drug Design

An insight into molecular docking and molecular dynamics

**WORKSHOP DATES**

29 September - 1 October 2026

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BRAINWARE UNIVERSITY Department of Pharmaceutical Technology
Brainware University, Barasat

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The course aims to:

- Secondary Structure Prediction using AlphaFold BLAST
- Sequence Alignment via NCBI/PDB
- Phylogenetic Tree Construction using MEGA XI
- Molecular Docking using BIOVIA Discovery Studio
- PyRx Molecular Dynamics Simulation using GROMACS

PROGRAMME SCHEDULE

**Day 1: SEQUENCE & STRUCTURE FOUNDATIONS**

- 2D Structure Prediction (AlphaFold)
- BLAST & Sequence Alignment (NCBI/PDB)
- Phylogenetics & Tree Construction (MEGA XI)

**Day 2: STRUCTURE-BASED INTERACTION**
(Molecular Docking (BIOVIA Discovery Studio, PyRx))

**Day 3: MOLECULAR DYNAMICS SIMULATION**
(Molecular Dynamics Simulation (GROMACS))

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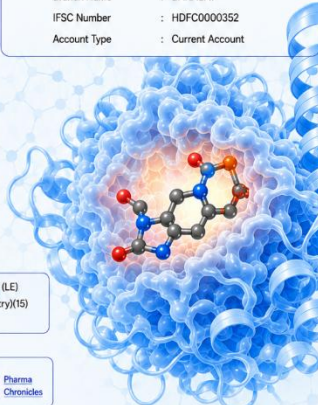
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The Department of Pharmaceutical Technology is all set to host an upcoming **three-day hands-on workshop on Computational Biology and In Silico Drug Design**, offering participants practical insights into molecular docking and molecular dynamics and their applications in modern drug discovery.

28

From the Faculty's Pen



এই বিশ্ব ভুবন শুধুই করে স্বার্থের ব্যবহার।
তাই তো আমি শুধু তোমার কাছে করি অন্যায় আবদার।।
স্বার্থের সমাজে ভালোবাসা, সত্যি ই যেন এক বিরল,
সেখানে, তুমি ই শুধু দিয়েছো আমার, রক্তিম ভালোবাসা অনর্গল।
তোমার কোলে ঘুমিয়ে পড়ে, পায় যে আমি স্বর্গসুখ।
তোমায় ছাড়া ভাবি না আমি, ভিন্ন কোনো মুখ।।
প্রেম বিলাসী এই ভুবনে সবাই যখন ক্ষনস্থায়ী,
চাই তোমায় এই জীবনে থাকো তুমি চিরস্থায়ী।।
দিলাম আমি তোমায় শুধু, আমার আয়ুর কিছুক্ষণ।
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Assistant Professor
Dept. of pharm. Tech.
Brainware University

Faculty's Artwork



Nature's Two Moods

By

Dr. Priya Das

Assistant Professor

Department of Pharmaceutical Technology, Brainware University

Department of Pharmaceutical Technology

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