

# BRAINWARE UNIVERSITY

UGC • BCI • PCI • INC • WBNC

Information Brochure

## Department of Biotechnology

**FUTURE-READY  
WITH AI**



# BRAINWARE UNIVERSITY

## Future-Ready with **AI**

One of Eastern India's Foremost Universities Embedding **AI Across All Departments**

# AI for All: Brainware University's Future-Ready Strategy

Brainware University is embedding Artificial Intelligence across its entire ecosystem – empowering students, faculty, staff and the wider community with future-ready skills.

## AI Across Campus



From classrooms to corridors, AI is seamlessly integrated into academics, administration and daily campus life

## AI Education for Everyone



Foundation-level and discipline-specific AI training equips all students, teachers, and staff with practical, hands-on AI tools

## AI-Powered Academics



Smarter teaching, learning, research, and assessment driven by intelligent technologies

## Smart & Streamlined Administration



AI-enabled systems enhancing efficiency in Admissions, HR, and Examinations

## Community Outreach & Impact



Driving AI awareness among **2,00,000+** students and parents across **2000+** schools in West Bengal

## AI Research Cell



The AI Research Cell empowers faculty and students to upscale their skills through hands-on, AI-driven research, innovation, and interdisciplinary collaboration.

# RECOGNITIONS



ज्ञान-विज्ञान विमुक्तये  
UNIVERSITY GRANTS  
COMMISSION (UGC)



DSIR-SIRO



MINISTRY OF EDUCATION,  
GOVT. OF INDIA



MINISTRY  
OF MSME

# APPROVALS & MEMBERSHIPS



PHARMACY COUNCIL  
OF INDIA (PCI)



BAR COUNCIL  
OF INDIA (BCI)



INDIAN NURSING  
COUNCIL (INC)



WEST BENGAL NURSING  
COUNCIL (WBNC)



DEPARTMENT OF HEALTH  
& FAMILY WELFARE



ASSOCIATION OF INDIAN  
UNIVERSITIES (AIU)



INSTITUTION INNOVATION  
COUNCIL (IIC)



UNNAT BHARAT  
ABHIYAN (UBA)



ALL INDIA MANAGEMENT  
ASSOCIATION



THE ASSOCIATION  
OF COMMONWEALTH  
UNIVERSITIES

# COLLABORATIONS WITH FOREIGN UNIVERSITIES



LIVINGSTONE COLLEGE  
North Carolina, USA



HANYANG UNIVERSITY  
Republic of Korea



THE INSTITUTO NACIONAL DE  
TECNOLOGIA AGROPECUARIA  
(INTA), Argentina



SEJONG UNIVERSITY  
Republic of Korea



KASAMA UNIVERSITY  
COLLEGE OF HEALTH SCIENCE  
AND TECHNOLOGY, Zambia

# AWARDS & RANKINGS

BEST IN PLACEMENT awarded by



Best Institute in Engineering (Placement)  
Best Institute in MBA Education  
Best Law Institute



**1** Technical  
Private  
University  
in West Bengal  
NUMBER ONE



Times Higher Education  
**Impact Rankings 2025**

**AMONG TOP 100 UNIVERSITIES IN INDIA**

**AA+** Achievement

**CAREERS 360**  
*A Career is a Life*



BEST UNIVERSITY FOR PROMOTING  
INDUSTRY ACADEMIA LINKAGE  
2024



**'PROMISING PRIVATE UNIVERSITY  
FOR INDUSTRY LINKED COURSES'**  
at 7th Industry-Academia  
Annual Conclave



# School of Biotechnology & Biosciences

## Department of Biotechnology

- PhD
- MSc Bioinformatics
- MSc Biotechnology
- BSc (H) Biotechnology
- BTech Biotechnology



### Salient Features

- Student's involvement in faculty research projects from Semester-I.
- Highly qualified faculty members having PhD, postdocs and industry exposures
- Syllabus for curriculum as per competitive exams like; JAM (UG) / SET, GATE, NET
- Value-Added Courses
- Rural biotech work in surrounding villages as a part of outreach programme of university
- Scope of receiving free training for Competitive exams.
- Skill Enhancement Courses
- Ability Enhancement Courses
- Digital-first curriculum with AI tools
- Transforming interdisciplinary concepts into impactful solutions through cutting-edge innovation labs
- Empowering students with hands-on training in foundational and domain-specific AI tools to make them future-ready

### Programme Highlights

- Hybrid mushroom cultivation technology
- Biofuel production from organic waste
- Plant tissue culture and nursery development
- Clinical Data Management
- RT-PCR Test
- Bioenzyme production from kitchen waste

### Specialisation Scope

- Advanced techniques like PCR, ELISA, western blot, immunoprecipitation in animal biotechnology.
- Biopharming and bioresources
- Microbial fermentation and production of small and macro-molecules.
- Bioremediation
- Food preservation and safety
- Mushroom cultivation technology
- Plant tissue culture and nursery management technology
- Organic farming technology
- Biofuel production technology
- Water treatment and purification technology
- Biofertilizer production

### Project Associates

- West Bengal Department of Science & Technology and Biotechnology
- Ministry of Micro, Small & Medium Enterprises (MSME)
- Unnat Bharat Abhiyan (UBA)
- Science for Equity Empowerment and Development (SEED), a Division of DST
- State University Research Excellence (SERB-SURE), a new scheme of the Science and Engineering Research Board

### Career Opportunities

- Biotechnologist (Agricultural/Medical /Environmental)
- Soil and plant scientist • Biopharma expert
- Molecular biologist /Microbiologist • Biochemist & biophysicist
- R&D scientist • Academicians • QA / QC Analysts
- Food Safety Analyst Lab Technicians • Clinical research associate

## Institute-Industry Collaborations for Internships



VITAL WASTE  
Redivivus Recyclers  
Private Limited



Indian Institute of Bio Social  
Research and Development



WBLDCL



Vedanta College



Alona Centre for  
National Products



Instituto Nacional de  
Tecnología Agropecuaria



Sikim Manipal Institute of  
Medical Sciences, Sikim Manipal University,  
Department of Medical Biotechnology



CNG Agrocare



Centre for  
Public Health Research



Sidho-Kanho-Birsha  
University



Powell Laboratories  
Private Limited

## Advancing Life Sciences through Artificial Intelligence

- Application of AI-powered bioinformatics visualisers for DNA/protein analysis
- Training in intelligent data processing for biological experiments
- Exploration of predictive molecular modeling and AI-driven biodiversity mapping
- Hands-on experience with gene-editing simulation tools
- Shaping biotechnologists who merge life sciences with intelligent algorithms

### Specialised AI Tools in Use



BioSolve  
Process



PharmiIT



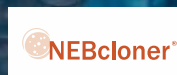
PharmaGist



RoseTTAFold



Protocols.io



NEBcloner





# Alumni Spotlight

Subhajit  
Micro Crispr



Mousumi  
MSc Biotechnology



Ishita  
Biotechnology



Pratik  
MSc Biotechnology



Gungun  
BSc Biotechnology

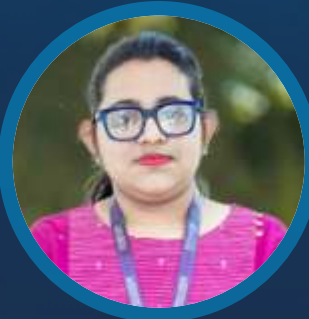




## WE ARE HAPPILY EMPLOYED

Suchesmita  
BSc Biotechnology

**Cipla**



Debalina  
BSc Biotech



Dipendu  
MSc Biotechnology

**Licious**



Arunava  
MSc Microbiology

**MICRO CRISPR**



Pratima  
MSc Biotechnology

**MICRO CRISPR**



and many more ...

### Placement Scoreboard

Total Campus Drives

**50**

Highest Salary Offered

**₹6.60 LPA**

Average Salary Offered

**₹3.44 LPA**

Total Companies Visited

**27**

# Events and Activities



Workshop on Waste Utilisation



Outreach Programme on Rural Biotechnology



MSME-sponsored Entrepreneurship Seminar



Green Biomerge: Enhancing Health through Environment, Biotechnology and Entrepreneurship



Workshop on PBMC Isolation Techniques



3rd National Conference on 'Bio-Frontiers'



Placement Training Session



Biotech Ideathon Bootcamp

# Students' Achievements



Gold Medal at All India Shoto Cup



Best Presenter Honour  
at the Global Health Sciences  
Conference in Singapore



Winners of Smart India  
Hackathon 2024  
won a prize money  
of Rs.1 Lakh!



Top 3 positions and cash prizes for  
paper and poster presentation at  
Healthcon 2024  
at JU organised by IMS Kolkata



Brainware University Volleyball Team clinched the Runners-Up Trophy at the Triple Hit Tournament during CRUX 2025 — the cultural and social fest of IPGMER & SSKM, Kolkata



Our students in NSS Adventure Camp  
at Atal Bihari Vajpayee Institute of Mountaineering, Manali



BBA & B.Tech CSE-AI students who received Presidential Scholarship from USA

# Infrastructure Highlights : Facilities and Amenities



Eco-friendly campus

Smart clean classrooms

Hi-tech Research stations / workshops

Industry expert workshops / masterclasses

Conference halls

Seminar halls

ICT on-campus library / digital library

Strictly No-Ragging campus

360-degree recruitment support

On-campus separate hostels for boys and girls

On-campus ATM

Entertainment zone and talent clubs

Multi-sports arena

Mental Wellness Centre and Gymnasium

Multicuisine food court

Agriculture field

“ The best part of our global campus is that everything is within an affordable price range. Any eligible student can get enrolled without burning a hole in the pocket, and have a world class learning experience. ”

Our Extra-Curricular activities are facilitated through various clubs like :



# Scholarship Scheme

## We PAY. You LEARN.

### VIDYALANKAR

100%\*

Tuition fees waiver  
>= 95% in 10+2 Exam

50%\*

Tuition fees waiver  
>= 90% in 10+2 Exam

### MEDHA BRITTI

Upto ₹60K\*  
Scholarship  
60-89% in 10+2 Exam

### KRIRA RATNA

Upto 100%  
Tuition fees waiver  
on sports certificates from  
international to district level

Toppers from an institution with less than 90% will get additional Rs. 25,000/- off over and above the Brainware Merit Scholarship (based on marks obtained in qualifying exam and seat availability)



Scan this QR Code  
for scholarship details

**\*N.B. Central and state government scholarship schemes available for eligible students**

- Brainware Vidyalankar Scholarship is not applicable for MPharm, BPharm, DPharm, BSc Nursing and GNM programmes
- Brainware Vidyalankar Scholarship is not applicable for International Students
- To avail the Brainware Vidyalankar Scholarship, a candidate must possess a minimum of 60% throughout their career.

# Government Scholarship Scheme

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**A list of government scholarships one can apply for:**

**West Bengal Chief Minister's Relief Fund (Nabanna) Scholarship**

<http://wbcmo.gov.in/>

**Swami Vivekananda West Bengal Merit-Cum-Means Scholarship**

<https://svmcm.wbhed.gov.in/>

**Kanyashree Prakalpa(K2)**

<https://www.wbkanyashree.gov.in>

**West Bengal Minorities' Development & Finance Corporation**

<http://www.wbmdfcscholarship.in>

**Scholarship for SC ST & OBC Students in West Bengal**

<https://oasis.gov.in/>

**National Scholarship**

<https://scholarships.gov.in/>

**Students can also avail STUDENT CREDIT CARD SCHEME launched by Government of West Bengal for higher studies up to 10 lacs.**

The links are provided on the scholarship page of the university website



Scan this QR Code  
for scholarship details

# Dreams Made Possible: Testimonies of Vidyalankar Scholars

## Vidyalankar Scholarship 2025



When I received the Brainware Vidyalankar Scholarship, it felt like someone truly believed in my potential. Coming from a modest family, higher education always felt uncertain. This support removed that fear and allowed me to focus completely on learning, growing, and dreaming bigger without constantly worrying about finances.

Subhadeep Das | 90.2% in HS  
Enrolled in B.Tech CSE - AIML

## Vidyalankar Scholarship 2024



The scholarship did not just reduce my fees; it gave me confidence. I no longer felt like a burden on my parents. Instead, I felt empowered to give my best in class, participate in projects, and prepare seriously for my future career.

Rajani Sarkar | 90% in HS  
Enrolled in BCA

## Vidyalankar Scholarship 2025



There was a time when I thought I might have to drop my admission despite securing good marks. The Vidyalankar Scholarship changed everything. It gave me dignity, hope, and the freedom to pursue my education with pride and independence.

Sushoka Zhimo | 93.2% in HS  
Enrolled in LLB

## Vidyalankar Scholarship 2024



Studying at Brainware University with the Vidyalankar Scholarship has been life-changing. I could finally invest my energy in academics, skill development, and internships instead of constantly worrying about expenses at home.

Payel Chatterjee | 90.8% in HS  
Enrolled in BBA

## Vidyalankar Scholarship 2025



This scholarship came at a moment when my family was going through financial stress. It felt like a helping hand extended at the right time. Because of this support, I now study with peace of mind and a deep sense of gratitude.

Shreya Halder | 94% in HS  
Enrolled in BSc in Physician Assistant

## Vidyalankar Scholarship 2025



The Vidyalankar Scholarship motivated me to work harder every single day. It reminded me that merit and effort are valued here. I feel responsible not just to myself, but to everyone who believed in me.

Sayan Ghosh | 90.6% in HS  
Enrolled in BSc in Advanced Networking & Cyber Security

# Best of Everything at an Affordable Price

Modern facilities of global stature assist students to attain the best opportunities...



Enjoying Campus Life



University Campus



Wi-Fi Enabled Campus



In-house Health Clinic



Auditorium



Canteen & Cafeteria



Web-based Students' Forum & Tailor Made App



Language Lab

# Great Campus Life!

"I have been intensely engaged with the vibrant campus community of Brainware ever since my first year; apart from academics, there is so much to do and explore amid our lush green campus!"



Nikhita Gandhi at Annual Fest



Gym



Creative Workshop



Photo Walk



Cricket



Soccer



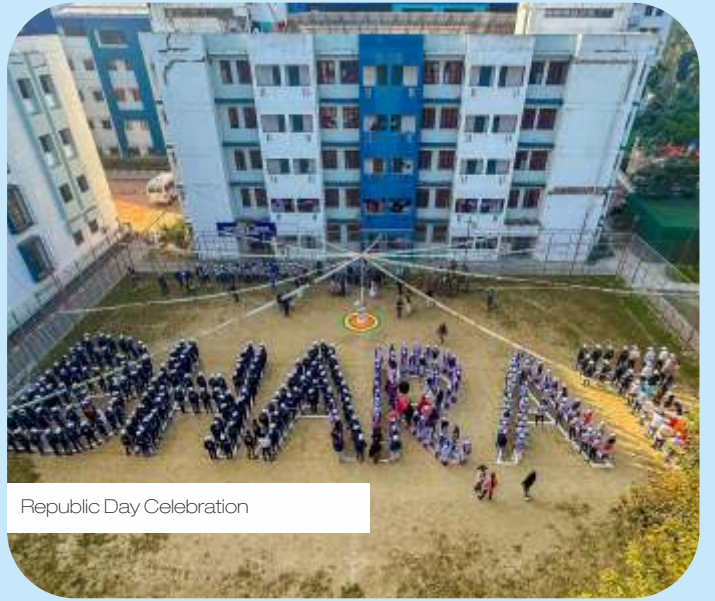
Olympian Dipa Karmakar at Brainware



Celebrating Independence Day



Tree Plantation



Republic Day Celebration

# Great Campus Life!



Basanta Utsav



College Band



Session with singer Anweshaa



Karate



Yoga Competition



Business Fair



Annual Fest



Mental Wellness Workshop



Fashion Saga



Book Fair



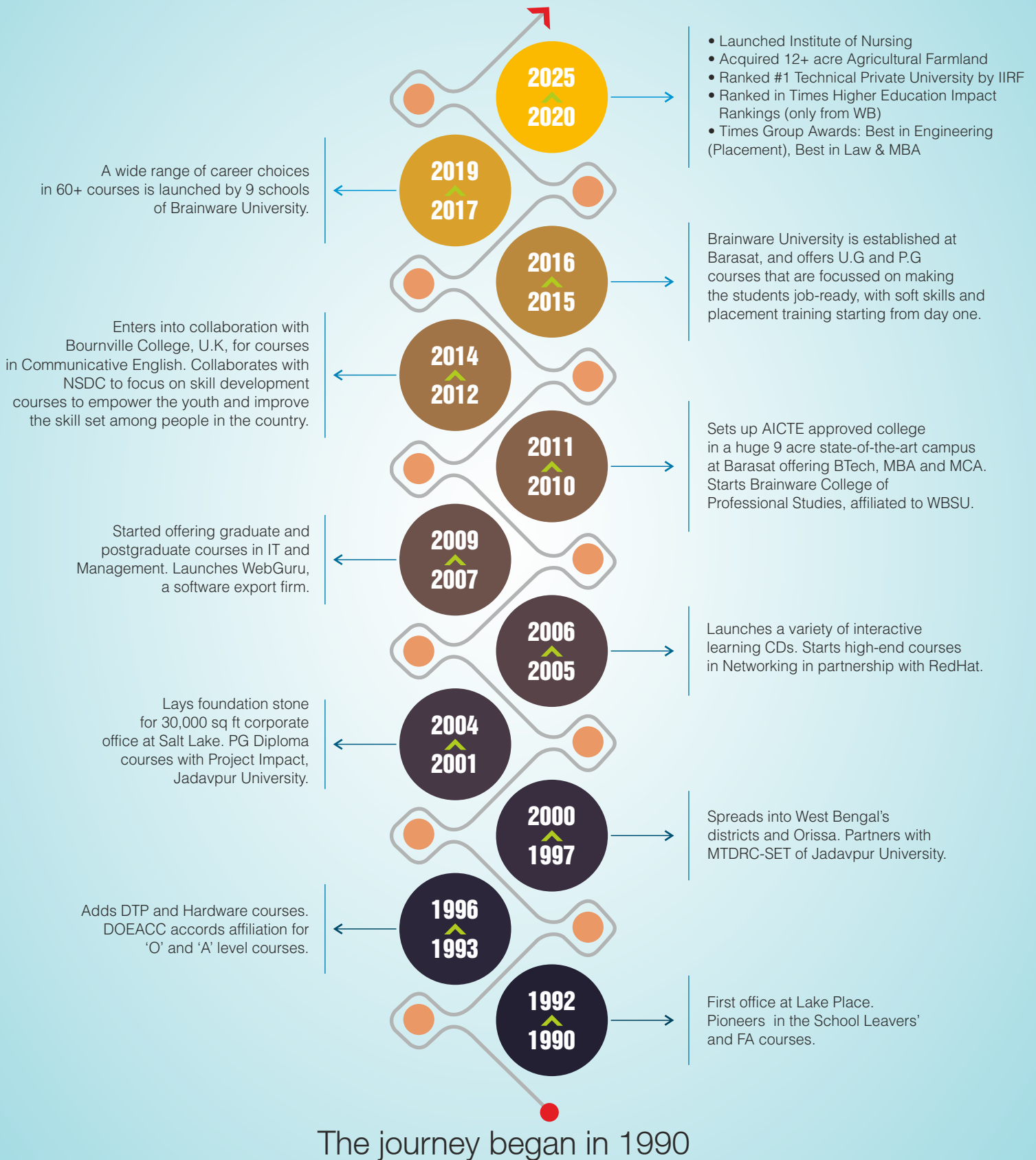
Street Play

## No Ragging Campus ▶ Ragging is a Crime Punishments for Ragging

Suspension • Rustication • Expulsion • FIR • Prosecution • Arrest / Imprisonment up to 2 years or fine up to INR 10,000/- or both

Anti-Ragging Squad & Committee details available in the Anti-Ragging Handbook

# BRAINWARE TIME LINE





Visit us



## BRAINWARE UNIVERSITY

Barasat Campus : 398, Ramkrishnapur Road, Barasat, Near Jagadighata Market, Kolkata, West Bengal 700125



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