

SDG 4: QUALITY EDUCATION



ANNUAL REPORT 2024-25

4 QUALITY
EDUCATION



Brainware University

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



Email: info@brainwareuniversity.ac.in

Website: <https://www.brainwareuniversity.ac.in/>

Sustainable Development Goal 4: Quality Education

Understanding SDG 4

SDG 4 aims to ensure inclusive, equitable, and quality education and lifelong learning for all. It underpins every other development goal by empowering people through knowledge, skills, and values. For a developing economy like India, quality education is central to reducing inequality and fostering innovation.

Brainware University's Commitment

Brainware University integrates the principles of SDG 4 into its mission — *to deliver accessible, affordable, and employable education through technology and ethics.*

Established in 2016, Brainware has become a model private university emphasizing applied learning, rural inclusivity, and research excellence.

In 2024–25, Brainware advanced its **Quality Education Agenda** by combining **curriculum reform, AI integration, international collaboration, faculty capacity-building, and community outreach.**

Institutional Vision and Strategy

The **Strategic Plan 2023–28** positions *education quality and employability* as twin pillars of institutional growth. Key strategic thrusts linked to SDG 4 include:

- **Curricular Reforms under NEP/FYUGP (2024–25):**
 - 100+ courses redesigned for outcome-based learning (OBE).
 - AI and digital literacy introduced across all UG programs.
 - Common interdisciplinary courses promoting ethics, sustainability, and communication.
- **Faculty Capacity Building:**
 - 35 Faculty Development Programmes conducted (AI, pedagogy, research methods).
 - 2,000+ participants trained.
 - Specialized FDP on “ChatGPT & Google AI Studio” (Sept 2025) mandated for nominated faculty.
- **Academic Excellence Monitoring:**
 - Implementation of “Working 9/Even 9” automation system for CO–PO–PSO attainment tracking across departments.

Teaching, Learning, and Digital Innovation

Blended Learning Environment

All classrooms across Schools (Engineering, Management, Law, Nursing, Allied Health, etc.) are equipped with **ICT tools**, enabling a **100% smart classroom network**.

Research-Based Pedagogy

Students participated in **Mini Research Projects** (MRP scheme), combining classroom concepts with local issues (health, environment, entrepreneurship).

Research and Academic Output

Key Publications (2024–25) on Quality Education and Learning Technology:

Publication Title	Theme
<i>AI-Powered Pedagogy for Post-Pandemic Classrooms</i>	Tech-enhanced learning
<i>Adaptive Learning Models for Personalized Education</i>	EdTech
<i>AI in Human Resource Development</i>	Workforce readiness
<i>Simulation-Based Learning in Healthcare Education</i>	Skill-based training
<i>Cognitive Learning Enhancement through VR</i>	Mental well-being & learning
<i>Language Pedagogy in AI Era</i>	Linguistic inclusivity

Book Chapters:

Faculty contributed to edited volumes addressing educational innovation and inclusivity, notably *“Emerging Trends in Multidisciplinary Research”* and *“National Education Policy 2020: Reforms in Indian Education System.”*

Patents and Innovation for Education

Brainware University filed **six major patents** during 2024–25 related to learning systems and educational devices:

1. **AI-Based Personalized Learning Assistant System for Children** – CSS Dept.
2. **Interactive Multi-Way Touchscreen Table for Classroom Learning** – CST Dept.
3. **AI-Driven Human Resource Management System for HEIs** – CSE-AI Dept.
4. **AI & ML-Based Smart Drone for Educational Delivery** – Hospitality Management Dept.
5. **Motion-Responsive Mattress for Disability Learning Support** – Allied Health Sciences.
6. **AI-Driven Talent Acquisition and Predictive Learning System** – CSS Dept.

These inventions strengthen **inclusive, technology-supported education** and reflect the university's cross-disciplinary innovation culture.

Outreach and Social Education

Unnat Bharat Abhiyan (UBA): Brainware's five adopted villages — Faldi, Dubgaria, Chaturia, Chak Barbaria, and Panshila — serve as field labs for experiential learning.

Activities in 2024–25 included:

- School Learning Enhancement Programmes
- STEM Awareness Drive
- Safe Drinking Water & Hygiene Workshops
- Career Guidance Sessions

Scholarships, Equity and Inclusion

Brainware Scholarship Ecosystem (2024–25):

Scheme	Nature of Aid
Swami Vivekananda Merit-cum-Means	Tuition fee support
SC/ST/OBC State Scholarship	Full/Partial Fee Waiver
Kanyashree Prakalpa	Women's education aid
Nabanna Scholarship	CM Relief Fund
Brainware Merit Scholarships	100% or 50% tuition waiver
Sports & Talent Awards	₹10,000–₹50,000 grants

These schemes ensure that financial barriers never prevent deserving students from completing education.

Partnerships and Collaborations

Academic MoUs (2024–25):

Institution	Country	Area
University of South Carolina	USA	Research & Training in Biotechnology Education
Hanyang University	South Korea	Joint Academic Programmes
Kasama University College of Health Science	Zambia	Curriculum Development & Online Learning
Sejong University	South Korea	Research & Faculty Exchange

Additionally, Brainware's IIC collaborated with **MSME and DSTBT-funded projects** integrating education, skill training, and innovation incubation for students.

Education is the most powerful instrument for sustainable change. In 2024–25, Brainware University proved that *quality education is not defined by infrastructure alone but by intention, inclusivity, and innovation.*

Through scholarships, AI-integrated pedagogy, outreach to rural learners, and partnerships with global universities, Brainware continues to advance SDG 4 in both spirit and substance.

Its classrooms are not confined to walls—they extend into the community, connecting knowledge with purpose. As the university moves towards 2025–27, it remains steadfast in its vision: **to make learning equitable, intelligent, and transformative for all.**