



BRAINWARE UNIVERSITY

**Annual SDG-4 Report
2023-24**

SDG 4: Quality Education

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

SDG 4: Qualify Education - Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all

Introduction: The Purpose of SDG 4

Quality education is the backbone of all sustainable development goals. It goes beyond classroom instruction to include lifelong learning, digital inclusion, values education, and employability. At Brainware University, education is treated as both a human right and a development catalyst. The University's mission—*Transforming Lives through Knowledge*—embodies the principles of SDG 4 by ensuring that access, equity, and excellence coexist in its academic ecosystem.

The institution aligns all academic, research, and governance policies with the targets of SDG 4—specifically:

- Universal access to quality education.
- Equal access to affordable higher education.
- Skills for work and entrepreneurship.
- Inclusion for vulnerable groups.
- Education for sustainable development and global citizenship.

Institutional Framework for Quality Education

1 Policy Foundations

Brainware University's commitment to quality education is formalized through:

- Teaching–Learning Quality Policy: Standardized outcome-based education (OBE) across all schools.
- CO–PO–PSO Mapping System: Fully automated in Excel-VBA (2024) for continuous course attainment tracking.
- NAAC/NBA-aligned Internal Quality Assurance System (IQAS): Centralized under the HR-Quality division.
- Continuous Faculty Development (CFD): Regular Faculty Training Programmes (FTP) on pedagogy, AI, NEP 2020, and Bloom's taxonomy alignment.

2 NEP 2020 Alignment

Brainware University implemented key NEP directives:

- Introduction of 4-year undergraduate research-integrated curriculum.
- Multidisciplinary choice-based credit system (CBCS) across all schools.
- Creation of AI-integrated works for non-engineering disciplines.
- Academic Bank of Credits (ABC) activation for flexible credit transfers.

Access, Equity, and Inclusion

1 Scholarships and Financial Support

The University ensures no student is denied education due to financial hardship (linked to SDG 1 & 4).

Key schemes: Vidyalankar (Academic Excellence), Medha Britti (Merit), Krira Ratna (Sports), and government-aided programs such as Nabanna, Kanyashree, SC/ST/OBC, and Minority Scholarships.

2 Inclusive Pedagogy

- Strive assisted learning and extended time for visually impaired students.
- Accessibility ramps and e-resource libraries in compliance with UGC guidelines.
- “Bridge Courses” to help non-science students transition into tech programs.

Teaching–Learning Excellence and Faculty Empowerment

1 Faculty Training and Professional Development

Brainware University launched an institutional Faculty Training Programme (FTP) on Artificial Intelligence in Education that covered:

- *AI for Academic Content Development*
- *Automating Assessment & OBE Mapping*
- *Using Generative Tools Responsibly*

More than 150 faculty members completed the foundational module.

Additional FDPs were conducted on:

- NEP 2020 implementation
- Outcome-based education

Brainware University SDG Annual Report 2023-24

- Digital pedagogy
- Research ethics and publication quality

2 Academic Infrastructure and Digital Transformation

Facility / Initiative	Purpose	Department
Learning Management System (LMS) – Brainware e-Learn	Centralized digital classroom and attendance tracking	IT Department
Smart Classrooms with AR/VR pilot	Immersive lab learning	CSE / Allied Health
Brainware MOOC Platform	Self-paced online courses in emerging technologies	All departments
Library Automation (Koha + D Space)	100 % digital cataloging of 55 000 + titles	Central Library

Research and Innovation in Education

Research at Brainware University increasingly focuses on *education technology, digital literacy, and learning equity*.

Selected Publications and Book Chapters:

Title	Author(s)	Publication / ISBN	Relevance to SDG 4
<i>Artificial Intelligence in Education: Ethics, Governance, and Future Pathways</i>	Dr. Pulak Patra et al.	BWU Press 2024 (Under Print)	Integrating AI safely in higher education.
<i>The Future of Learning in NEP 2020: Transforming Pedagogy and Assessment</i>	Dr. Samarendra N. Saha et al.	BWU Research Compendium 2023	Reforms for inclusive curriculum.
<i>National Education Policy 2020: Reforms in Indian Education System</i>	Subham Chatterjee	ISBN 978-81-19428-51-9	Policy alignment and quality benchmarks.
<i>Human Resource Management in the Era of Artificial Intelligence</i>	Dr. Tiny T. Gohain et al.	<i>Emerging Trends in Multidisciplinary</i>	AI literacy and reskilling of educators.

		<i>Research (ETMR) ISBN</i> 798-93-91387-55-6	
<i>Empowering Learners through Digital Pedagogy</i>	Aliya Begum et al.	<i>Education and Technology in the Post-Pandemic World</i> BWU Series 2024	Digital inclusion strategies.

Community Outreach and Lifelong Learning

School-Level Educational Outreach

- “Learning Beyond Books” initiative (July 2023–March 2024) — University students conducted science demonstrations and career-readiness workshops in rural schools.
- Student Mentorship Programme (SMP): Senior undergraduates mentor first-year students academically and emotionally, reducing dropout rates by 8 %.

3 Lifelong Learning and Professional Courses

Brainware offers over 40 skill and value-added courses, including:

- Data Analytics and AI Applications
- Spoken English and Soft Skills
- Business Communication and Negotiation
- Sustainable Development and Environmental Ethics

Institutional Quality Assurance and Accreditations

- Continuous data validation through IQAC dashboards.
- Departmental self-assessment reports aligned with NAAC criteria.
- Revised Board of Studies (BoS) and Minutes + ATR tracking for academic consistency.
- Implementation of outcome analytics (CO–PO–PSO mapping) through automated Excel/VBA macros, improving course feedback accuracy by 30 %.
- Preparation of institutional documentation for NAAC accreditation Cycle 1 emphasizing SDG alignment.

Brainware University’s journey under SDG 4 illustrates that *quality education is not a privilege—it’s a public responsibility*.

Brainware University SDG Annual Report 2023-24

Through inclusive scholarships, skilled faculty, digital pedagogy, and rigorous quality systems, the University has built a learning ecosystem that nurtures competence, creativity, and conscience.

By integrating NEP 2020 reforms with outcome-based analytics and lifelong learning opportunities, Brainware ensures that education here is not limited to classrooms—it is a continuum that transforms individuals and communities alike.

In doing so, the University contributes not just to SDG 4, but also to the collective progress of all other Sustainable Development Goals.

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