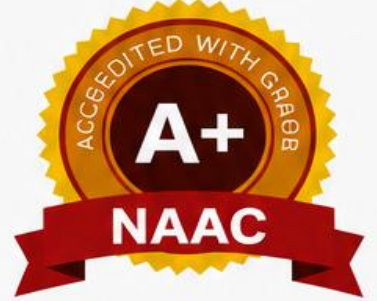




DR. BHIMRAO AMBEDKAR UNIVERSITY, AGRA

(Formerly Agra University, Agra)

A+ Accredited by NAAC

Report on

Sustainable Development Goal 13



SDG 13
CLIMATE ACTION

13.1 Research on climate action

Dr. Bhimrao Ambedkar University is dedicated to advancing SDG 13: Climate Action by encouraging high-quality research on climate change mitigation, adaptation, resilience, and sustainable development. Through interdisciplinary research projects, the University promotes innovative ways to reduce greenhouse gas emissions, improve resource efficiency, and strengthen climate resilience at the local and national, and levels.

13.1.1 Climate Action: Cite Score-The university's climate-action research is being published in well-cited, high-visibility outlets, which can amplify the reach of findings on mitigation, adaptation, and resilience. In 2025, the average citation count is 10.43 highlights the strong scholarly impact and visibility of Dr. Bhimrao Ambedkar University on climate action.

13.1.2 Climate Action: FWCI- The average Field-Weighted Citation Impact (FWCI) 0.741 indicates that the University strives to enhance the international impact of its climate action research by encouraging collaborative research, interdisciplinary projects, international partnerships, and publication in high-quality journals.

13.1.3 Climate Action: Publication-

The university publishes 28 papers on climate action and environmental sustainability. These papers help to advance scientific understanding and practical solutions for tackling climate-related issues at the local, national levels. The University encourages academics and research scholar to publish in peer-reviewed journals, conference proceedings, book chapters, and international collaborative projects. Publications are indexed in recognized databases such as Scopus and Web of Science, which enhance global visibility and contribute to institutional research excellence.

S. No.	Year	Title	Author(s)	Journal / Book	Citation	DOI
1.	2026	Carbonaceous Composition Assessment of PM2.5 Near Taj Mahal	Bhupendra Swarup Sharma,Astha Tomar ,Sudhir Kumar Sharma	Journal of Atmospheric Chemistry	1	10.1007/s10874-026-09491-y

		Wintertime and Heritage Risk				
2.	2026	Soil Carbon Sequestration as a Climate Change Mitigation Strategy: A Review	Yadav K.K. et.al	Journal of Global Innovations in Agricultural Sciences	0	DOI: 10.22194/JGIAS/26.1877
3.	2025	Cigarettes as a Source of Heavy Metal Toxicity: Evaluating Human Health Risks	Sandal S.; Verghese P.S.; Taneja A.; Massey D.D.; Habil M.	Discover Public Health	15	10.1186/s12982-025-00650-2
4.	2025	Metal Contamination in Sediments of River Kalu, Maharashtra, India	Salgaonkar S.; Botle A.; Tiwari R.; Barabde G.	Sustainable Chemistry for Climate Action	2	10.1016/j.scca.2025.100105
5.	2025	Health Concerns and Issues Associated with Toxic Heavy Metals	Botle A.; Salgaonkar S.; Barabde G.; Tiwari R.	Global Perspectives of Toxic Metals in Bio Environs (Book Chapter)	5	10.1007/978-3-031-89725-2_7
6.	2025	Exposure Assessment of Size Segregated PM and Associated Respirable Deposition Dose Near National Highway	Shikha; Kumar V.; Singh A.; Taneja A.	Water, Air, and Soil Pollution	3	10.1007/s11270-025-08314-2
7.	2025	A Critical Review on Effective Removal of Volatile Organic Compound	Tiwari, R., Rajouriya, K., Singh, P.P. <i>et al</i>	Journal of the Iranian Chemical Society	2	doi.org/10.1007/s13738-025-03277-x

		from Air by Catalyst				
8.	2025	Variability of Fine Particulate Matter (PM1.0 and PM2.5) and Its Oxidative Potential at Different Locations in Northern India	Tulika Tripathi, Madhu Anand, Gursumeeran Satsangi	Aerosol Science and Engineering	1	10.1007/s41810-024-00269-x
9.	2025	Health Risk Assessment and Morphometric Study of Metal-Bound Ultrafine Aerosol in Indo-Gangetic Plain, India	Rahul Tiwari, Kalpana Rajouriya, Renuka Saini	Journal of Atmospheric Chemistry	2	10.1007/s10874-025-09471-8
10.	2024	Inherent Roadmap in Synthesis and Applications of Sustainable Materials Using Oil Based and Microbial Polymers	Kumar.D.Garvan dha M.; Kumar S.; Deo N.	Materials Today Sustainability	22	10.1016/j.mtsust.2023.100615
11.	2024	Morphology, Aspect Ratio, and Surface Elemental Composition of Primary Aerosol Particles at Urban Region of India	Pipal A.S.; Kaur P.; Singh S.P.; Rohra H.; Taneja A.	Environmental Science and Pollution Research	6	10.1007/s11356-024-34372-w

12.	2024	A Review on Sequential Extraction of Metals Bound Particulate Matter and Their Health Risk Assessment	Kalpana Rajouriya, Atar Singh Pipal ,Ajay Taneja	Journal of Atmospheric Chemistry	5	10.1007/s10874-024-09460-...
13.	2023	Temporal and Spatial Variations of Satellite-Based Aerosol Optical Depths, Angstrom Exponent, Single Scattering Albedo, and Ultraviolet-Aerosol Index over Five Polluted and Less-Polluted Cities of Northern India	Singh A.; Kumar S.	Aerosol Science and Engineering	32	10.1007/s41810-022-00168-z
14.	2023	Chemical Fraction and Health Effect of Size Segregated PM at National Highway of Northern India	Rahul Tiwari et.al	Pollution	3	10.22059/poll.2023.360350.194
15.	2023	Water Physicochemical Factors and Oxidative Stress Physiology in Fish: A Review	Soumya V. Menon, Avnish Kumar, Sushil Kumar Middh	Frontiers in Environmental Science	9	10.3389/fenvs.2023.1240813

16.	2023	Predicting the Effect on Land Values After Introducing High-Speed Rail	Annie Srivastava, Shilpi Lavania & Swati Mohapatra	Transportation Energy and dynamic	9	doi.org/10.1007/978-981-99-2150-8_8
17.	2023	Effects of Electromagnetic Radiations Emitted from Cell Phone Towers on Avifaunal Diversity in urban landscape of Aligarh region, India	Atul Sharma, Meera Singh, Mani Gahlaut, Mukesh Kumar	Ecology, Environment and Conservation	1	10.53550/EE.C.2023.v29i03s.059
18.	2023	Biocomposites: Prospects and Manifold Applications for Human and Environmental Sustainability	Dr. Shilpi Lavania	ECS Journal of Solid State Science and Technology	21	10.1149/2162-8777/acbe17
19.	2023	Temporal and Spatial Variations of Satellite-Based Aerosol Optical Depths, Angstrom Exponent, Single Scattering Albedo, and Ultraviolet-Aerosol Index over Five Polluted and Less-	Gautam A.	Aerosol Science and Engineering	38	10.1007/s41810-022-00168-z

		Polluted Cities of Northern India: Impact of Urbanization and Climate Change				
20.	2022	Variations in Black Carbon and Particulate Matter During Firecracker Bursting Episodes and Biomass Burning	Ajay Taneja	Journal of Air Pollution and Health	2.1	10.18502/japh.v7i4.11383
21.	2022	Progress in Absorption of Environmental Carbon Dioxide Using Nanoparticles and Membrane Technology	Jaiswar G.; Dabas N.; Chaudhary S.; Jain V.P.	International Journal of Environmental Science and Technology	13	doi.org/10.1007/s13762-022-04526-9
22.	2022	A Systematic Review on Long Term Variation of Carbonaceous Aerosols in Pm _{2.5} at Different Sites of “Delhi” Capital City of India	Bhupendra Swarup Sharma, Astha Tomar	International Journal of Current Science Research and Review	5	https://doi.org/10.47191/ijcsrr/V5-i11-08
23.	2022	Revisiting the Atmospheric Particles: Connecting Lines	Tanya Tripathi, Akshay Kale, Prabal G.	Science of the Total Environment	6	https://doi.org/10.1016/j.scitotenv.2022.156676

		and Changing Paradigms	Satsangi, Ajay Taneja			
24.	2019	Study on Bulk to Single Particle Analysis of Atmospheric Aerosols at Urban Region	Pipal A.S.; Singh S.; Satsangi G.P.	Urban Climate	18	10.1016/j.ueli m.2018.12.00 8
25.	2019	Partitioned Particulate Data and Health Risk Quantification of Metal Content in Mixed Residential Areas of Northern India	Ajay Taneja, Himanshi Rohra	17th International Conference on Indoor Air Quality and Climate, INDOOR AIR 2022	-	ISBN 978-1-7138-7181-1
26.	2019	Study on Bulk to Single Particle Analysis of Atmospheric Aerosols at Urban Region	Atar Singh Pipal, Sachchidanand Singh, Gursumeeran P. Satsangi	Urban Climate	0	ISSN 2212-0955
27.	2018	Mass Distribution and Health Risk Assessment of Size Segregated Particulate in Varied Indoor Microenvironments of Agra, India – A Case Study	Rohra H.; Tiwari R.; Khandelwal N.; Taneja A.	Urban Climate	42	10.1016/j.ueli m.2018.01.00 2

28.	2016	Study of Chemical Species Associated with Fine Particles and Their Secondary Particle Formation at Semi-Arid Region of India	Satsangi P.G.; Pipal A.S.; Budhavant K.B.; Rao P.S.P.; Taneja A.	Atmospheric Pollution Research	8	10.1016/j.apr.2016.06.010

13.2 Low Carbon energy Use-

Dr. Bhimrao Ambedkar University is committed to lowering greenhouse gas emissions and fostering sustainable energy practices in its institution, taking into consideration all of the Sustainable Development Goal (SDG) 13. The University has installed renewable energy systems, including rooftop solar photovoltaic (PV) panels, to generate clean electricity and reduce dependence on conventional fossil fuel-based power. Energy-efficient technologies such as LED lighting, occupancy sensors have been implemented in academic buildings, laboratories, administrative offices, libraries to minimise electricity consumption. The campus also promotes sustainable energy management through regular energy audits, preventive maintenance of electrical systems, and continuous monitoring of energy consumption. Smart energy management practices help identify opportunities for reducing wastage and improving operational efficiency. To further reduce its carbon impact, the University supports sustainable transportation by offering electric vehicle mobility on campus. Awareness events, workshops, and campaigns are held on a monthly basis to educate students, teachers, and staff about energy saving methods and the necessity of decreasing carbon emissions.

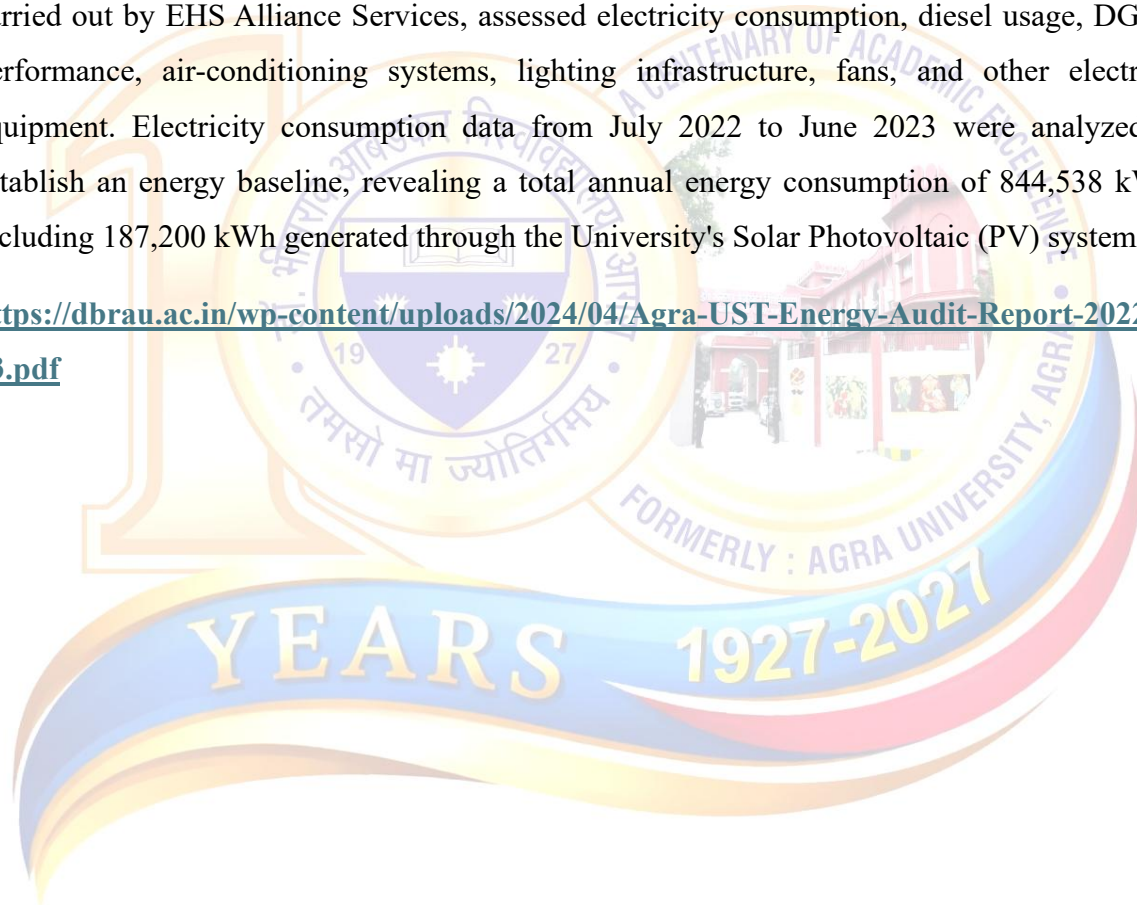
13.2.1 Low Carbon Energy Tracking

To integrate energy tracking into a campus, the university should first map all energy sources and major consuming areas across the campus. Smart meters and sub-meters can then be installed to collect data on electricity use from different buildings and systems such as lighting, laboratories, and hostels. This data should be connected to a central digital platform or dashboard so that energy consumption can be monitored regularly and analyzed in real time.

The university should also set a baseline for energy use, compare current performance with past records, and identify areas of high consumption. Regular energy audits, maintenance checks, and awareness programs can help reduce waste and improve efficiency. By combining monitoring, analysis, and action, the campus can track low-carbon energy use effectively and support SDG 13: Climate Action.

Energy Audit reports- Dr. Bhimrao Ambedkar University, Agra conducted a comprehensive Energy Audit (2022–23) to evaluate energy consumption patterns, identify opportunities for energy conservation, and improve overall energy efficiency across its campuses. The audit, carried out by EHS Alliance Services, assessed electricity consumption, diesel usage, DG set performance, air-conditioning systems, lighting infrastructure, fans, and other electrical equipment. Electricity consumption data from July 2022 to June 2023 were analyzed to establish an energy baseline, revealing a total annual energy consumption of 844,538 kWh, including 187,200 kWh generated through the University's Solar Photovoltaic (PV) system.

<https://dbrau.ac.in/wp-content/uploads/2024/04/Agra-UST-Energy-Audit-Report-2022-23.pdf>





CERTIFICATE

PRESENTED TO

**DR. BHIMRAO AMBEDKAR UNIVERSITY,
AGRA**

Has been assessed by EHS Alliance Services for the comprehensive study of Energy Audit on institutional working framework to fulfill the requirement of

ENERGY AUDIT

INITIATIVE CARRIED OUT BETWEEN YEAR 2020-2023

The energy-saving initiatives carried out by the institution have been verified in the report submitted and were found to be satisfactory.

The efforts taken by management and faculty towards all types of energy used in the institution and sustainability are highly appreciated and noteworthy.

A handwritten signature in blue ink, appearing to read 'H. J. J.', positioned above the signature line.

SIGNATURE



28.06.2023

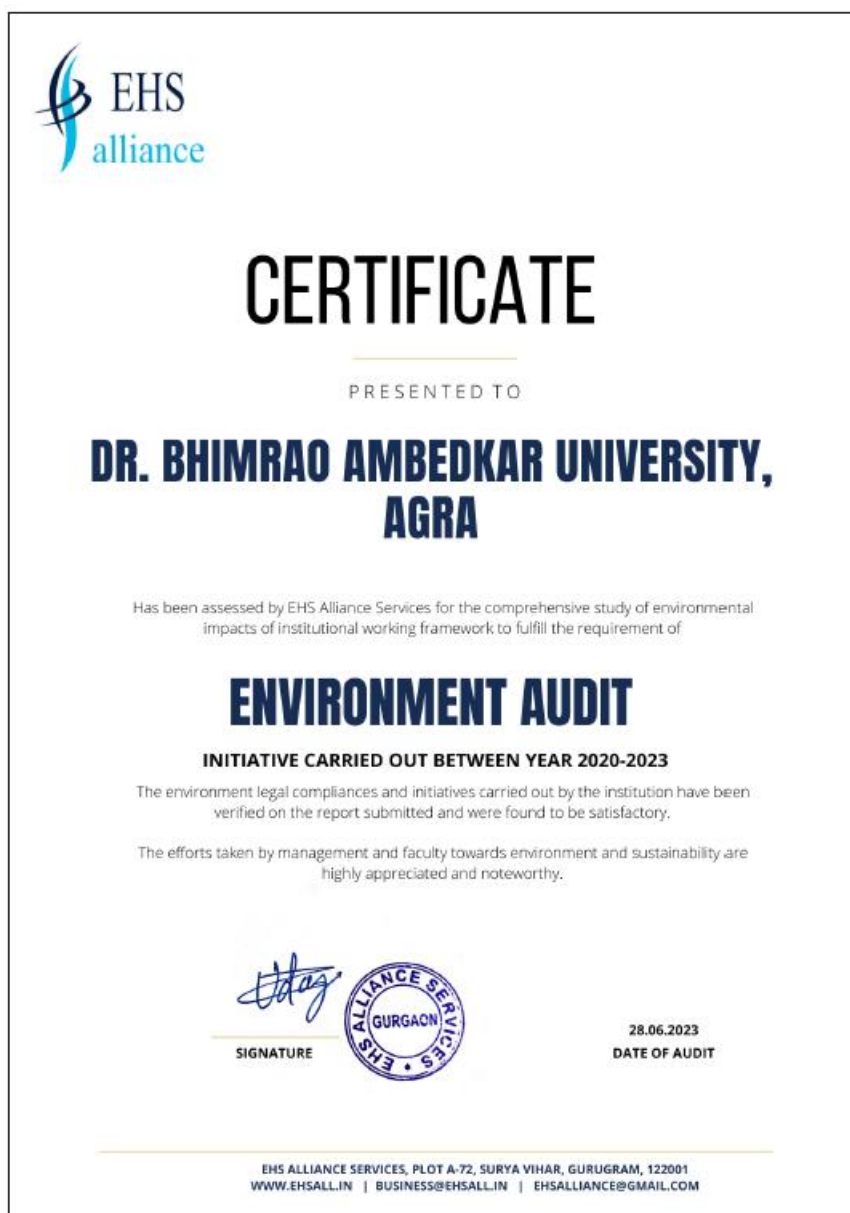
DATE OF AUDIT

EHS ALLIANCE SERVICES, PLOT A-72, SURYA VIHAR, GURUGRAM, 122001
WWW.EHSALL.IN | BUSINESS@EHSALL.IN | EHSALLIANCE@GMAIL.COM

Environment Audit reports-The audit assessed key areas including waste management, energy conservation, water and wastewater management, air quality, environmental compliance, and campus sustainability practices. It identified existing initiatives such as waste segregation, efficient use of water and electricity, green landscaping, and measures to maintain a clean and healthy campus environment. The audit also provided recommendations to further improve resource efficiency through enhanced waste recycling, increased adoption of energy-efficient technologies, regular environmental monitoring, and awareness programmes for students and staff. By implementing these recommendations, the University aims to reduce its

environmental footprint, conserve natural resources, minimize greenhouse gas emissions, and strengthen institutional resilience to climate change.

<https://dbrau.ac.in/wp-content/uploads/2024/04/Agra-UST-Environment-Audit-Report-2022-23.pdf>



Green Audit Report -The Green Audit 2022–23 of Dr. Bhimrao Ambedkar University assessed the environmental sustainability of the campus by evaluating green infrastructure, waste management, water conservation, biodiversity, carbon footprint, and eco-friendly practices. The audit highlighted the University's commitment to creating a sustainable campus through extensive green cover, tree plantation, landscape development, waste minimization, and efficient water and wastewater management. It recognized the University's initiatives in

maintaining green spaces that enhance carbon sequestration, improve air quality, and support local biodiversity. The audit also reviewed practices related to solid waste segregation, recycling, rainwater management, and environmental awareness among students and staff. Recommendations included increasing native plantation, strengthening waste recycling systems, improving carbon footprint monitoring, and expanding sustainable campus initiative

<https://dbrau.ac.in/wp-content/uploads/2024/04/Agra-UST-Green-Audit-Report-2022-23.pdf>



13.2.2 Low Carbon Energy Use-

Solar Energy- The university's commitment to sustainable development shines through its integration of solar power systems into its infrastructure. A substantial portion of the power demand is met by the energy generated through solar cells. It's imperative to minimize reliance on conventional energy sources and transition towards renewable resources. Currently, the university boasts two different capacities of solar cells, producing 60 kWh at the Khandari Campus and 70 kWh at the Challesar Campus.

University Solar Energy System



Picture - Sensor Based Energy Consumption

Campus Battery Energy Storage System

The university encourages students and staff to utilize bicycles, allowing them to be kept on campus premises. Additionally, battery-operated vehicles are provided for differently abled students' transportation within the campus and for transporting luggage, guests, and others. Both faculty and students predominantly use battery-powered vehicles, contributing to sustainable mobility practices. Promotion of electric vehicles (EVs), bicycles, and pedestrian-friendly infrastructure within the campus. Charging stations for EVs will be installed to encourage adoption among students and staff.

- Reduced fuel consumption
- Lower carbon emissions
- Cleaner campus environment
- Promotion of sustainable transport culture

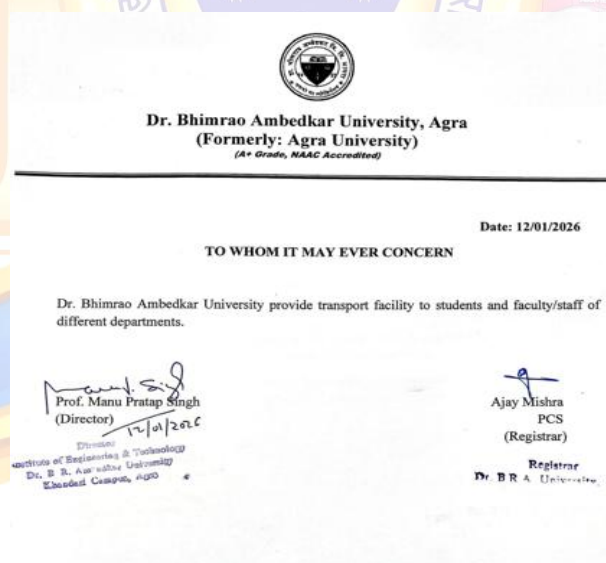
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Pic- Battery power Vehicle Bill

The University promotes the use of bicycles as an environmentally friendly and sustainable mode of transportation to support the achievement of Sustainable Development Goal.



Pic- Student using Bicycle



Pedestrian Friendly Pathways

Campus being mostly vehicle-free, students and staff enjoy the convenience of walking along pedestrian- friendly pathways. Moreover, covered and tiled pathways enhance the walking experience for students and faculty, further promoting a pedestrian-friendly environment



Pic- Student walking on pathway

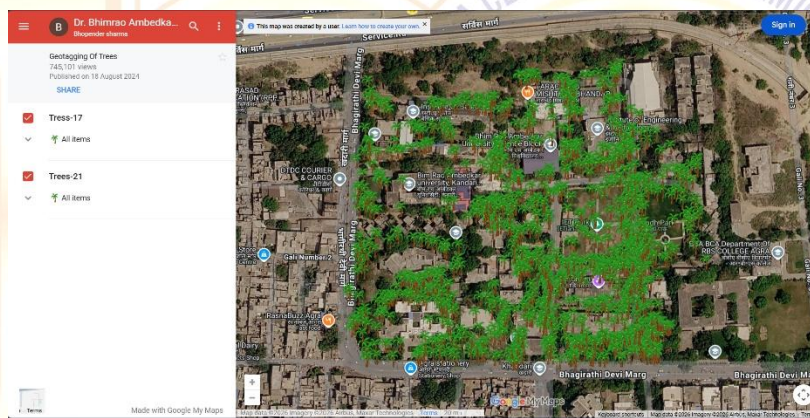
Landscaping with Trees

The university's landscaping is visually captivating, reflecting a keen aesthetic sense, with well-maintained lawns and trees providing shade and enhancing the ambiance. The university boasts a diverse landscape comprising old, middle-aged, and young trees, along with herbs and shrubs, all meticulously maintained by skilled personnel.





Green campus - maintained lawns and landscaped open space



Geo-tagged plantation records with common and botanical names

Uses of LED lights - The University is committed to promoting sustainable campus operations by adopting energy-efficient LED lighting and solar-powered lighting systems across academic buildings





Pic- Uses of LED lights and solar light

13.3 Environmental Education Measures

The university integrates climate-related topics into relevant courses and programmes, including environmental studies, engineering, management, and social sciences. This includes modules on climate science, carbon footprint reduction, renewable energy, sustainable campus practices, and climate-resilient infrastructure. Faculty members are encouraged to embed case studies, local climate issues, and practical projects so that students can connect theory with real-world challenges.

13.3.1 Local Education Programmes on climate

Integration of Sustainability into the Curriculum

The university incorporates environmental sustainability and climate change topics into undergraduate, postgraduate programmes across multiple disciplines. Courses include subjects such as climate change, renewable energy, environmental engineering, sustainable development, biodiversity conservation, waste management, environmental law, green technologies, and carbon management. Interdisciplinary learning enables students from diverse academic backgrounds to understand the environmental, social, and economic dimensions of climate action.

Program Name	UG/PG	Course Title	Course Description
B.E	UG	Environmental and Ecology	The course introduces the concepts of biodiversity, ecosystem structure and

			function, natural resource management, environmental pollution, climate change, ecological conservation, and sustainable development
B.sc	UG	Environmental Science	The aim of the UG course is to build fundamental knowledge, a about fundamentals of ecology and ecosystems Biodiversity and conservation Environmental chemistry and pollution (air, water, soil, noise) Natural resource management (water, forests, land, energy) basic laboratory analysis
M.sc	PG	Environmental Science	PG programme provides advanced and specialized training in Environmental Science, Environmental impact assessment (EIA) and risk assessment, Climate change science, adaptation, and mitigation strategies
Phd	PG	Environmental Science	The Department of Environmental Science, under the School of Life Sciences, offers a Ph.D. in Environmental Science to promote advanced research in environmental protection, climate change, pollution control, and sustainable development, Biodiversity Conservation, Waste Management and Wastewater Treatment.
Diploma	UG	Sustainable Development	understanding of sustainability principles and practical skills to address social, economic, and environmental challenges.

M.A	PG	Disaster Management	Disaster Management designed to prepare students for disaster risk reduction, emergency planning, climate resilience, and sustainable development. The programme provides both theoretical knowledge and practical skills for managing natural and human-induced disasters
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Activities: Students actively participate in environmental activities through Eco Clubs, NSS, NCC, Youth Red Cross, and other student organisations. Activities include:

- Campus cleanliness campaigns
- Plastic-free campus initiatives
- Waste segregation programmes
- Bicycle rallies and green transportation awareness
- Earth Day, World Environment Day, Energy Conservation Day, and Climate Action Week celebrations

Green Campus Initiative: Plantation, Conservation and Botanical Learning Enhancement- The Department of Botany, School of Life Sciences, Khandari Campus, Dr. Bhimrao Ambedkar University, Agra, undertook a Green Campus Initiative from July 2025 to February 2026 focused on plantation, biodiversity conservation, and botanical learning enhancement. As part of this initiative, M.Sc. Botany students developed designated plantation beds in Sur Udyan and the lawns of the School of Life Sciences for medicinal, aromatic, ornamental, and indigenous plant species. Under the guidance of the Hon'ble Vice Chancellor and Dean, plantation drives were organized involving students and research scholars, including planting saplings of Palash (*Butea monosperma*), the state tree. The initiative also included the transformation of campus spaces into a living repository of medicinal and aromatic plants for practical learning and research. Additionally, plant labeling and QR coding activities were undertaken to disseminate scientific information about plant species and enhance digital botanical learning. The project strengthened environmental awareness, biodiversity conservation, student responsibility, and sustainable green campus development.

- Developed plantation beds for medicinal, aromatic, ornamental, and indigenous plants.
- Successfully planted Palash (*Butea monosperma*) saplings on campus.
- Introduced plant labeling and QR coding for digital dissemination of botanical knowledge.

- Enhanced awareness regarding medicinal plant significance and environmental sustainability. Strengthened SDG-based Green Campus initiatives



वनस्पति विज्ञान विभाग में पलाश वृक्षारोपण: पर्यावरण संरक्षण की ओर विद्यार्थियों का कदम

आगरा। डॉ. भीमराव अम्बेडकर विश्वविद्यालय, स्वामी विवेकानंद परिसर स्थित वनस्पति विज्ञान विभाग में आज नव प्रवेशित छात्र-छात्राओं द्वारा राजकीय वृक्ष पलाश/ढाक के 10 पौधों का सफलतापूर्वक रोपण किया गया। यह कार्यक्रम कुलपति प्रो. आशु रानी के मार्गदर्शन में पर्यावरणीय चेतना जताने एवं विलुप्त होती पारम्परिक प्रजातियों के संरक्षण की दिशा में एक सराहनीय पहल रही इस अवसर पर विभागाध्यक्ष एवं संकायाध्यक्ष प्रो. राजनीश अग्निहोत्री के निदेशन में नवप्रवृत्त विद्यार्थियों ने पौधों का रोपण किया एवं उनकी देख-रेख की जिम्मेदारी भी स्वयं ली। वृक्षारोपण का उद्देश्य न केवल पौधों के प्रति भावनात्मक जुड़ाव बनाना था, बल्कि उन्हें संरक्षित कर भविष्य की पीढ़ियों के लिए एक हरित विरासत स्थापना भी था।

उल्लेखनीय है कि यह सभी पौधे प्रसिद्ध बाल रोग विशेषज्ञ डॉ. निखिल चतुर्वेदी द्वारा उनके पिताजी, प्रख्यात वनस्पतिशास्त्री स्व. डॉ. एन. एन. चतुर्वेदी की स्मृति में विभाग को प्रदान किए गए थे। यह कार्य न केवल



अन्तर्जालिक स्वस्थ्य था, बल्कि वनस्पति विज्ञान में उनके योगदान को सम्मानित करने का भी एक प्रयास था इस कार्यक्रम में विभाग की प्राध्यापिका डॉ. पुर्णि चतुर्वेदी, शोणजा खर्मा, हवजा इमतिआज, सुनील कुमार, लक्ष्मण स्वस्वय, शाहरुख सहित विभाग के परम्परागत एवं शोध छात्र-छात्राएं भी सक्रिय रूप से उपस्थित रहे। सभी प्रतिभागियों ने वृक्षों की महत्ता को समझते हुए भविष्य में इनके संरक्षण का संकल्प लिया यह आयोजन विद्यार्थियों के लिए पर्यावरणीय जगत्संज्ञता का एक प्रेरणास्त्रोत बना, जिससे विश्वविद्यालय परिसर को अधिक हरित, स्वच्छ और समृद्ध बनाने की दिशा में प्रेरणा प्राप्त हुई।

Pic Newspaper Clipping

2. Tree Plantation Drive

As part of the Green Campus Initiative, the Institute of Pharmacy and Paramedical Sciences, Chhalesar Campus, Dr. Bhimrao Ambedkar University, Agra, organized a Tree Plantation Drive to promote environmental sustainability and ecological conservation. The initiative focused on restoring green landscapes, enhancing biodiversity, improving air quality, and creating awareness regarding environmental protection among students and staff. Tree plantation activities contributed significantly to reducing carbon emissions, strengthening the green campus ecosystem, and supporting climate change mitigation efforts. The drive also encouraged active participation in SDG-based environmental initiatives and promoted long-term ecological responsibility within the university community.

- Promoted environmental sustainability and strengthened green campus development.
- Increased awareness regarding ecological conservation among students and staff.
- Enhanced biodiversity and improved greenery across the campus.
- Strengthened SDG-based environmental and sustainability activities on campus.





Pic- Tree plantation by Vc (Theme- Ek ped maa ke naam)

Waste Utilization for Biofuel Generation

The Department of Microbiology, School of Life Sciences, Dr. Bhimrao Ambedkar University, Agra, initiated a Green Campus Initiative on Waste Utilization for Biofuel Generation to promote the sustainable conversion of organic waste into biogas, a renewable source of energy. The initiative supports environmental protection, renewable energy production, sustainable waste management, and research-based learning for students and faculty members. The project was developed under a collaborative framework between the Department of Botany & Microbiology and M/S Garg Green Gases for industrial and research activities related to biogas production. It focuses on research, development, and optimization of microbial biogas generation processes at laboratory and pilot scale. This initiative aims to reduce environmental pollution caused by organic waste accumulation, encourage renewable energy production within the university campus, and strengthen academic-industrial collaboration while promoting eco-friendly waste management and sustainable bioenergy solutions.

Key Achievements

- Converted biodegradable waste into useful biofuel (biogas) for renewable energy generation.
- Enhanced practical exposure for students in industrial microbiology, bioenergy, and waste valorization.
 - Strengthened academic-industrial collaboration with M/S Garg Green Gases.
 - Contributed to SDG-based environmental sustainability and green campus development.



MEMORANDUM OF UNDERSTANDING (MoU)

Between



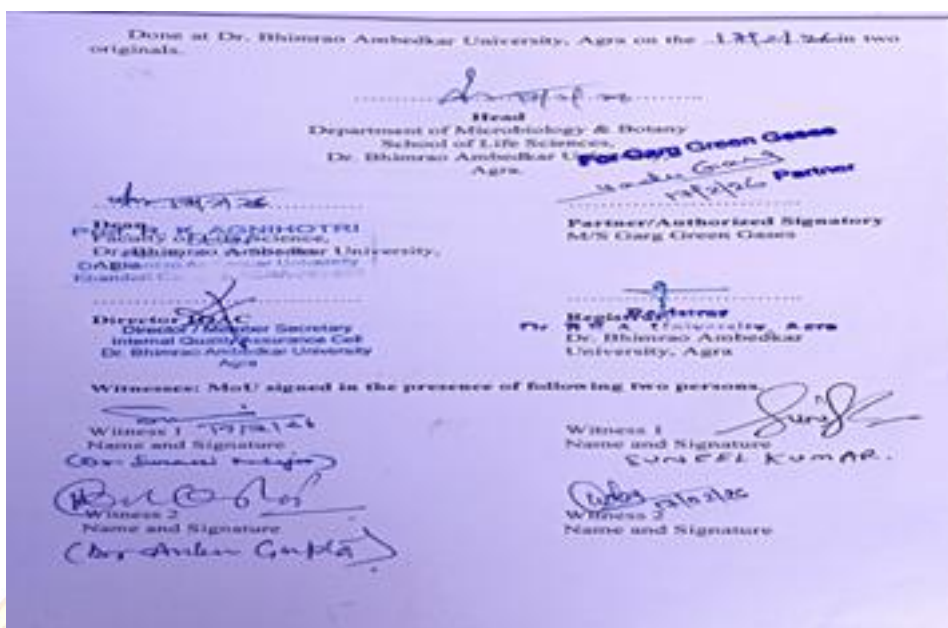
Department of Botany & Microbiology
Dr. Bhimrao Ambedkar University,
Khandari, Agra-282001 U.P., India

&

M/S Garg Green Gases

On

Industrial and Research Collaboration



Pic- Mou with M/S Garg Green Gases.

Solid Waste Management through Source Segregation and Scientific Disposal

Dr. Bhimrao Ambedkar University, Agra follows a systematic Solid Waste Management mechanism to ensure effective waste segregation, collection, and disposal across the campus. The university has implemented a three-bin segregation system in all hostels, academic departments, and administrative blocks. Separate dustbins are provided for biodegradable waste, non-biodegradable waste, and chemical waste, enabling proper handling at the source itself. This organized segregation minimizes environmental hazards and improves waste processing efficiency. The collected solid waste is subsequently transported to the Agra Municipal Corporation for final disposal in compliance with established government regulations.

Key Achievements

- Implementation of three-bin waste segregation system across the campus
- Improved collection and handling of biodegradable, non-biodegradable, and chemical waste
- Reduction in environmental pollution through proper waste segregation
- Strengthened coordination with Agra Municipal Corporation for regulated disposal
- Enhanced cleanliness, hygiene, and environmental awareness among students and staff



Source: <https://www.dbrausdg.in/initiatives/69764f4991d7abfa42ab3dfb>

Earth Day Celebration: Encouraging Sustainable Living and Environmental Stewardship

The Department of Environmental Studies, Dr. Bhimrao Ambedkar University, Agra, celebrated Earth Day on 22 April 2026 with activities focused on promoting sustainability and environmental responsibility. The celebration included two major activities: a Poster Competition and an In-House Awareness Seminar, both organized within the department premises. Students creatively presented posters on environmental themes such as climate

change, deforestation, biodiversity loss, plastic pollution, and renewable energy, showcasing scientific understanding and creativity. Faculty members and student speakers also conducted awareness sessions highlighting the significance of Earth Day, global environmental movements, and the importance of adopting eco-friendly practices. The event successfully strengthened environmental awareness, sustainability values, and scientific thinking among students.

No of participant-45





Source: <https://www.dbrausdg.in/events/6a12a801def8b2c7a4ad6ec3>

World Ozone Day Awareness Seminar

The Department of Environmental Studies, Dr. Bhimrao Ambedkar University, Agra, celebrated World Ozone Day on 16 September 2025 through an In-House Awareness Seminar organized within the department premises. The event marked the global observance of World Ozone Day, commemorating the signing of the Montreal Protocol (1987) aimed at protecting the ozone layer. Faculty members delivered informative talks on the significance of the ozone layer, ozone depletion, harmful ultraviolet radiation, climate change, and global environmental protection efforts. Students actively participated by sharing views on ozone layer recovery, environmental responsibility, and the role of individuals and institutions in reducing harmful chemical usage. The seminar promoted scientific awareness, environmental education, and sustainability practices among participants.



Source: <https://www.dbrausdg.in/events/6a12a66c0c62983e16406248>

Prakriti Ka Mahatva: Ek Gyanvardhak Pradarshan

The Department of Environmental Studies, Dr. Bhimrao Ambedkar University, Agra, participated in an informative and awareness-oriented exhibition on 05 June 2025 on the occasion of International Day of Yoga and World Environment Day under the theme “Yoga for One Earth, One Health.” The exhibition titled “Prakriti Ka Mahatva: Ek Gyanvardhak Pradarshani” focused on highlighting the importance of plants in reducing environmental pollution and maintaining ecological balance. Students actively demonstrated how plants contribute to air purification, absorption of harmful pollutants, reduction of carbon dioxide levels, biodiversity conservation, and improvement of environmental health. Through presentations and awareness activities, students conveyed the importance of planting and protecting trees for a sustainable future. The event was inaugurated by the Hon’ble Vice-Chancellor and successfully promoted environmental awareness, sustainability, and scientific understanding.

The poster is for an exhibition titled "Prakriti Ka Mahatva: Ek Gyanvardhak Pradarshani" (The Greatness of Nature: A Knowledge-Enhancing Exhibition). It is organized by the Department of Environmental Studies at Dr. Bhimrao Ambedkar University, Agra, on June 5, 2025, at 11:00 AM. The event is held at the School of Life Sciences, Swami Vivekananda Khaddari Campus. The poster features the university's logo, a portrait of the Vice-Chancellor, and a portrait of Professor Ashu Rani, the Vice-Chancellor. The text is in Hindi and English, emphasizing the theme "Yoga for One Earth, One Health" and the importance of environmental conservation. The poster also mentions the inauguration by the Vice-Chancellor and the successful promotion of environmental awareness, sustainability, and scientific understanding.

डॉ. भीमराव आंबेडकर विश्वविद्यालय, आगरा

अंतर्राष्ट्रीय योग दिवस

"Yoga for One Earth, One Health"

एवं

विश्व पर्यावरण दिवस-2025

के अवसर पर आयोजित प्रदर्शनी

प्रकृति का महत्व : एक ज्ञानवर्धक प्रदर्शनी

का शुभारंभ

प्रोफेसर आशु रानी

कुलपति

के कर कमलों द्वारा किया जायेगा।

दिनांक : 5 जून, 2025 | समय : प्रातः 11:00 बजे

स्थान : स्कूल आफ लाइफ साइंस, स्वामी विवेकानंद खंदारी परिसर



Source: <https://www.dbrausdg.in/events/6a12a5d2def8b2c7a4ad6eba>

डॉ. भीमराव आंबेडकर विश्वविद्यालय, आगरा
छात्र कल्याण विभाग
चतुर्थ राष्ट्रीय
पर्यावरण युवा संसद 2026
प्रतिभागी चयन हेतु आयोजित
वाद विवाद प्रतियोगिता
“Empower youth to Lead Localized Solutions for
Climate Adaptation and Mitigation”
दिनांक : 9 अक्टूबर 2025 समय : प्रातः 11:00 से स्वामी विवेकानन्द खंदारी परिसर

13.3.2 Climate Action Plan, Shared

As part of its commitment to **Sustainable Development Goal 13 (Climate Action)**, the University has developed and implemented a comprehensive **Climate Action Plan** that provides a strategic framework for reducing environmental impacts, promoting climate resilience, and fostering a culture of sustainability across the campus. The University's climate policies also encourage regular monitoring of environmental performance, documentation of sustainability initiatives, and continuous improvement through measurable targets and periodic

reviews. These policies provide evidence of the institution's commitment to responsible environmental governance and accountability.

Policy Detail

- This Policy shall be called the 'Dr. Bhimrao Ambedkar University Policy for Climate Action for Sustainability under Sustainable Development Goal 13: Climate Action.
- This Policy shall come into force from the date of its approval by the Executive Council of Dr. Bhimrao Ambedkar University, Agra.

2. Preamble

- Dr. Bhimrao Ambedkar University (DBRAU), Agra recognizes climate change as one of the most significant global challenges affecting environmental sustainability, human health, biodiversity, agriculture, water resources, and socio-economic development.
- As a premier State University, DBRAU is committed to supporting the United Nations Sustainable Development Goal 13 (Climate Action) by integrating climate-conscious practices into teaching, research, innovation, campus operations, and community engagement.
- The University acknowledges its responsibility to promote climate resilience, reduce greenhouse gas emissions, encourage sustainable lifestyles, and prepare students and society to address climate-related challenges through scientific knowledge, technological innovation, and responsible governance.
- This Policy provides a comprehensive framework for strengthening climate action initiatives across the University through sustainable campus management, environmental education, research, renewable energy adoption, and community participation.

3. Purpose

The purpose of this Policy is to establish a comprehensive institutional framework for climate action by promoting sustainable environmental practices, reducing the University's carbon footprint, strengthening climate resilience, and integrating climate change mitigation and adaptation into academic, administrative, research, and outreach activities.

4. Objectives

- Integrate climate change education into academic programmes and research.

- Promote energy efficiency and renewable energy.
- Reduce greenhouse gas emissions.
- Encourage water conservation, waste management, and biodiversity protection.
- Promote climate-resilient infrastructure.
- Strengthen environmental awareness.
- Encourage interdisciplinary climate research.
- Contribute towards national and global sustainability commitments.

5. Scope

This Policy applies to all Faculties, Departments, Centres, Administrative Offices, teaching and non-teaching staff, students, researchers, University campuses, hostels, laboratories, libraries, and all academic, administrative, research, extension, and outreach activities.

6. Policy Provisions

- Sustainable Campus Development: Green infrastructure, rooftop solar, tree plantation, rainwater harvesting, climate-resilient planning.
- University Climate Action Plan shall be facilitated that has time-bound goals for renewable energy use, energy efficiency, carbon neutrality, and reducing emissions of greenhouse gases in line with India's climate commitments.
- The University may conduct an Annual Carbon Footprint Assessment, Climate Risk Assessment, and Resource Efficiency Assessment covering greenhouse gas emissions, energy consumption, renewable energy generation, transportation, water use, waste generation. The assessment may support evidence-based planning and institutional sustainability reporting. The assessment report may support NIRF SDG Ranking, NAAC accreditation, THE Impact Rankings, and other national and international sustainability assessments.
- Energy and Resource Conservation: LED lighting, smart energy monitoring, water conservation, digital governance.
- Waste Management: Waste segregation, recycling, composting, e-waste management, reduction of single-use plastics.

- Climate Education and Research: Climate-focused curriculum, interdisciplinary research, innovation projects, collaborations.
- Awareness and Community Engagement: Workshops, awareness campaigns, Eco Clubs, NSS/NCC activities, observance of environmental days.
- Climate Governance: Environmental audits, sustainability reporting, climate action plans, measurable sustainability indicators.

7. Implementation and Monitoring

- Implementation shall be coordinated by the University Green Campus and Climate Action Committee under the Vice-Chancellor.
- The Committee shall include representatives from academic departments, administration, engineering section, environmental experts, NSS/NCC and students. It shall periodically monitor implementation, review progress, recommend improvements and prepare annual reports.

8. Compliance and Enforcement

All University stakeholders shall comply with this Policy. Periodic environmental audits and sustainability assessments shall be conducted. Non-compliance shall be addressed in accordance with University rules and applicable Government regulations.

9. Expected Outcomes

Reduced carbon footprint; improved energy efficiency; increased renewable energy adoption; enhanced environmental awareness; strengthened climate research; greener and climate-resilient campus; improved contribution towards SDG 13 and sustainability rankings.

10. Review of the Policy

This Policy shall be reviewed every three years or earlier, if required, to ensure alignment with national policies, climate commitments, technological advancements, and international best practices.

Dr. Bhimrao Ambedkar University
Agra • SDG Initiative

Home About SDGs SDG Goals Initiatives Events **Policies** Tabs Login

SDG 13 – Climate Action Take urgent action to combat climate change and its impacts

SDG 14 – Life Below Water conservation and sustainable use of the

Page 2 of 3 · 17 total

Dr. Bhimrao Ambedkar University Agra **SDG Goals 1-9** **SDG Goals 10-17** **Quick Links**

1. No Poverty 10. Reduced Inequalities Home

Dr. Bhimrao Ambedkar University
Agra • SDG Initiative

Home About SDGs SDG Goals Initiatives Events **Policies** Tabs Login

SDG 6 – Clean Water and Sanitation Ensure availability and sustainable management of water and sanitation for all

SDG 7 – Affordable and Clean Energy Ensure universal access to reliable sustainable and modern energy

SDG 8 – Decent Work and Economic Growth Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work

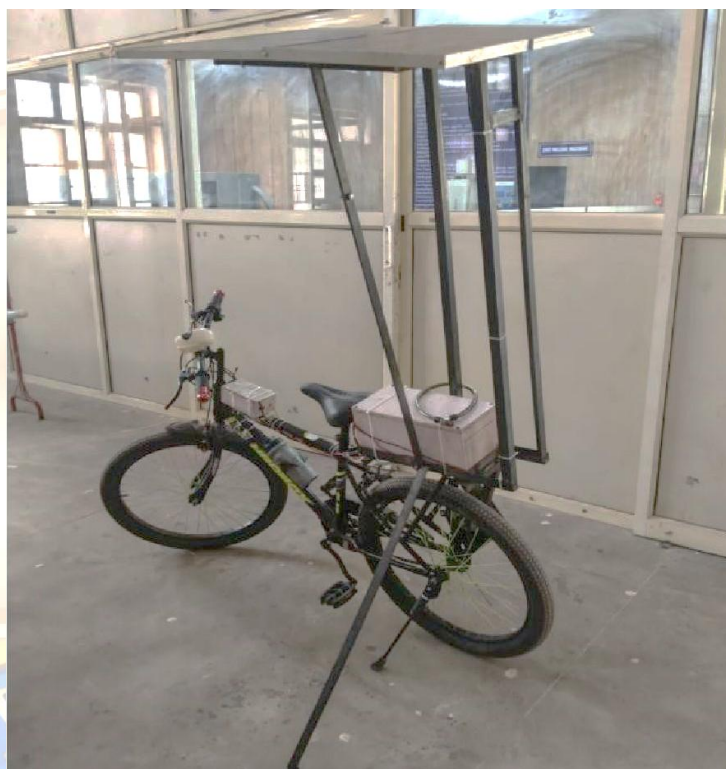
Page 1 of 3 · 17 total

Source: <https://www.dbrausdg.in/policies>

Solar E-Cycle Charging System

The Solar E-Cycle Charging System is an innovative renewable energy-based transportation solution designed to address challenges such as global warming, scarcity of traditional energy resources, and rising transportation costs. The project integrates a solar panel, PMDC machine, detachable battery, electronic controller, boost converter, and MPPT charger into a hybrid bicycle system to provide a clean, efficient, and economical mode of transport. The system utilizes solar energy and pedaling-generated power to drive the cycle and charge the battery, making it especially suitable for rural and urban short-distance commuting. It includes protection logic for voltage and current fluctuations, prevents overcharging, and allows

emergency charging through an AC supply. A unique feature is the integration of a 50W solar panel with boost MPPT charging technology, enabling charging even when panel voltage is lower than battery voltage. The project covers mechanical design, electrical circuit integration, and performance analysis, demonstrating a range of approximately 25–30 km per full charge. The Solar E-Cycle Charging System provides a carbon-neutral, eco-friendly, noiseless, and low-cost transportation solution, particularly benefiting youth, elderly, differently-abled individuals, and economically weaker sections of society.



Source : <https://www.dbrausdg.in/initiatives/6a0f4bee4c86582540a9dfb>

13.3.3 Co-Operative Planning for Climate Change Disasters

Name of the activity- Mock Drill on Fire Safety

A fire safety mock drill is a simulated emergency exercise conducted to practice evacuation procedures and test firefighting readiness. The activity involves triggering a fire alarm, evacuating the building via designated escape routes, gathering at a safe assembly point, and participating in live fire extinguisher demonstrations. A 250 no of student participated in this activity.



आपातकालीन स्थिति से बचाव और उपचार की हुई माकड्रिल

जामरग संवाददाता, आगरा: अगर भूकंप आ जाए तो कैसे बचा जाए। आपातकालीन स्थिति या दुर्घटना से बचाव और उपचार की माकड्रिल डा. भीमराव आंबेडकर विश्वविद्यालय के दीनदयाल उपाध्याय ग्राम्य विकास संस्थान पर हुई। दुर्घटना से बचने एवं आपात स्थिति से निपटने के लिए सुरक्षात्मक दृष्टिकोण से आपदा प्रबंधन के छात्रों द्वारा आयोजित भूकंप एवं अग्नि जागरूकता शिविर का आयोजन किया गया। शिविर में आपातकालीन स्थिति से निपटने एवं सुरक्षा की जानकारी प्रदान की गई।



विश्वविद्यालय के दीनदयाल उपाध्याय ग्राम्य विकास संस्थान द्वारा आयोजित माक ड्रिल में प्रशिक्षण लेते विद्यार्थी • लोकेशन से खिंचे

प्रशिक्षण एवं अभ्यास के माध्यम से उनके प्रभाव को कम किया जा सकता है। संस्थान के प्रभारी डा. मनोज कुमार सिंह ने कहा कि संस्थान में संचालित आपदा प्रबंधन के छात्रों को उच्च शिक्षण एवं ट्रेनिंग मुहैया कराई जा रही है। उन्होंने बताया कि

संस्थान के छात्र की पढ़ा में जिला आपदा प्रबंधन विशेषज्ञ के पद पर नौकरी लगी है। माकड्रिल का आयोजन डा. आदुष मंगल व डा. आभा सिंह के निर्देशन में किया गया। माक ड्रिल में संस्थान के 51 छात्रों ने सहभागिता की।

Pic- Headline of training

Faculty Development Program (FDP) on General concepts of Disaster Management in collaboration with National Institute of Disaster Management (NIDM), New Delhi

A Faculty Development Program (FDP) on the general concepts of Disaster Management was organized in collaboration with the National Institute of Disaster Management (NIDM), New Delhi. The program provided intensive knowledge on disaster management governance, legal frameworks, and institutional infrastructure, and aimed to build capacity among educators to integrate disaster risk reduction and resilience strategies in curriculum and institutional practices. The event was held on **March 31, 2024, at Jubilee Hall, Paliwal Park Campus** with approximately **350** attendees .



विकास में आपदाओं का ध्यान भी रखें

आगरा, कार्यालय संवाददाता। एक आपदा किसी भी क्षेत्र को विकास में 10 साल तक पीछे ले जाती है। डेवलपमेंट को डिजास्टर के साथ देखना होगा। ताकि कोई आपदा पूरे विकास को भी धरासाईं न कर दे। यह बातें राष्ट्रीय आपदा प्रबंधन संस्थान की प्रो. सुष्मा गुलेरिया के कहीं। वह आंबेडकर विवि में आयोजित फैकल्टी डेवलपमेंट कार्यक्रम में बोल रही थीं। विवि के पं. दीन दयाल उपाध्याय इंस्टीट्यूट ऑफ रूरल डेवलपमेंट की ओर आयोजित कार्यक्रम का शुभारंभ बुधवार को जुबली हॉल में हुआ। राष्ट्रीय आपदा प्रबंधन संस्थान के



विवि के जुबली हॉल में आयोजित कार्यक्रम का शुभारंभ करती कुलपति।

सहयोग से आयोजित हो रहे कार्यक्रम का शुभारंभ एडिशनल पुलिस कमिश्नर केशव चौधरी, कुलपति प्रो. आशु रानी, प्रति कुलपति प्रो. अजय तनेजा, लाइब्रेरी साइंस के विभाग प्रमुख प्रो.

यूसी शर्मा और संस्थान के निदेशक डॉ. मनोज राठौर ने किया। इस अवसर पर सेंट जॉन्स कॉलेज के प्राचार्य प्रो. एसपी सिंह, प्रो. विन्नी जैन, ब्रिगेडियर वीके दत्ता आदि मौजूद रहे।

Source: [Event Detail](#)

Environmental Awareness Rally

The University organized an Environmental Awareness Rally to educate students and the local community about environmental conservation and climate action. Participants carried placards and spread messages on tree plantation, waste reduction, plastic-free living, water conservation, and sustainable lifestyles. The rally promoted public awareness on protecting natural resources and encouraged active participation in environmental stewardship, contributing to the achievement of SDG 13: Climate Action.



Pic- Environment Awareness Rally

13.3.4 Inform and Support Government

The University actively collaborates with national institutions and government agencies to strengthen disaster preparedness, climate resilience, and sustainable development in alignment with **Sustainable Development Goal 13: Climate Action**. As part of this commitment, **Dr. Bhimrao Ambedkar University, Agra**, in collaboration with the **National Institute of Disaster Management (NIDM)**, Ministry of Home Affairs, Government of India, organized a **Training Programme on "Disaster Risk Reduction in Rural Context"** from **3–5 January 2023**.

The programme was designed to enhance institutional capacity for disaster risk reduction by equipping participants with the knowledge and practical skills required to address climate-induced disasters and build resilient communities. The training focused on disaster preparedness, climate adaptation strategies, rural infrastructure resilience, disaster management planning, emergency response mechanisms, and community-based disaster risk reduction. It also emphasized the integration of disaster risk reduction into development planning to minimize the impacts of climate-related hazards.





Dear Prof Pathak,

National Institute of Disaster Management (NIDM) is a statutory body of Government of India dedicated for capacity building for disaster risk mitigation and management. The Institute has taken several initiatives in the past which have helped its partner Institutes and state governments in achieving their objective of disaster risk reduction.

2. NIDM proposes to conduct a training programme on "Disaster Risk Reduction in Rural Context" from January 3-5, 2023 in collaboration with Deen Dayal Upadhyay Institute of Rural Development (DDU IRD), Dr. Bhimrao Ambedkar University, Agra at Agra. The Programme intends to sensitize, promote and institutionalize issues concerning disaster safe rural development/disaster risk reduction among the stakeholders. The Programme will also sensitize the participants on various issues like formulation of disaster management plan, etc.

3. The target group for this programme would be state government officials engaged in management of rural development programmes/schemes, development and maintenance of infrastructure in rural areas and university/college teachers involved in teaching disaster risk reduction/management and related subjects. In addition, few officers from administration who are directly involved in handling disaster management/reduction programmes at state level may also be requested to join the programme. You are requested to facilitate the nominations of the participants for this programme. The nominations received may please be shared with NIDM.

4. DDU IRD, Agra University will make all administrative arrangements for the programme, including the boarding and lodging arrangements for the outstation participants, NIDM faculty and local resource persons, etc. Expenses of the NIDM faculty involved with the Programme including local travel, etc., will be borne by the host organization.

5. As per the norms, NIDM will provide an all-inclusive grant of Rs. 2000/- (including boarding and lodging) per day per participant for all off-campus programmes or on actual basis, whichever is less. In case, where lodging is not required by the participants, a course fee of Rs. 1000/- (including boarding) per day per participant or on actual basis, whichever is less will be paid. The financial grant will be released on submission of statement of actual expenditure, training programme report and final list of participants on completion of the training programme.

6. Please feel free to communicate with Dr. Amir Ali Khan, NIDM Faculty Coordinator of the course (email: amir.nidm@nic.in), in case more information/clarifications are needed.

With regards,

Yours sincerely,

Taj Hassan
(Taj Hassan)

Prof. Vinay Kumar Pathak
Vice Chancellor,
Dr. Bhimrao Ambedkar University,
Paliwal Park, Agra (U.P.) 282004
Email: vc@dbrau.org.in

आपदा प्रबंधन महाविचार: पूरा भारत भागीदार

फोन / Ph: +91-11-20873401, • ई मेल / E-mail: ed.nidm@nic.in, • वेब साइट / Website: www.nidm.gov.in

Pic- Letter from NIDM

13.3.5 Environmental Education Collaboration with NGO

Dr. Bhimrao Ambedkar universities plays a significant role in achieving these objectives is through collaboration with Non-Governmental Organizations (NGOs) Such partnerships provide valuable opportunities to combine academic knowledge with practical expertise, enabling students, faculty, and local communities to engage in meaningful climate action. In

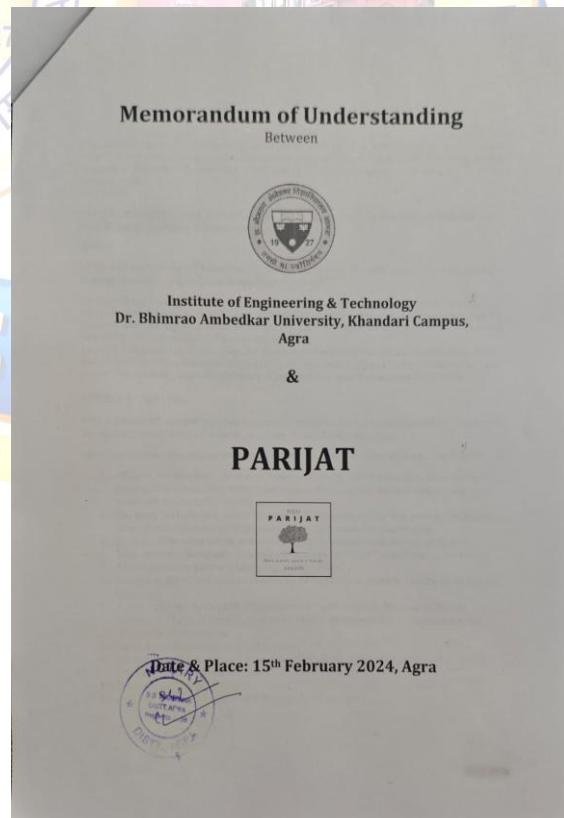
addition to educational activities, university–NGO partnerships often facilitate community outreach programmes, tree plantation drives, cleanliness campaigns, plastic-free initiatives, biodiversity surveys, environmental awareness rallies, and citizen science projects.

Environmental Awareness Work

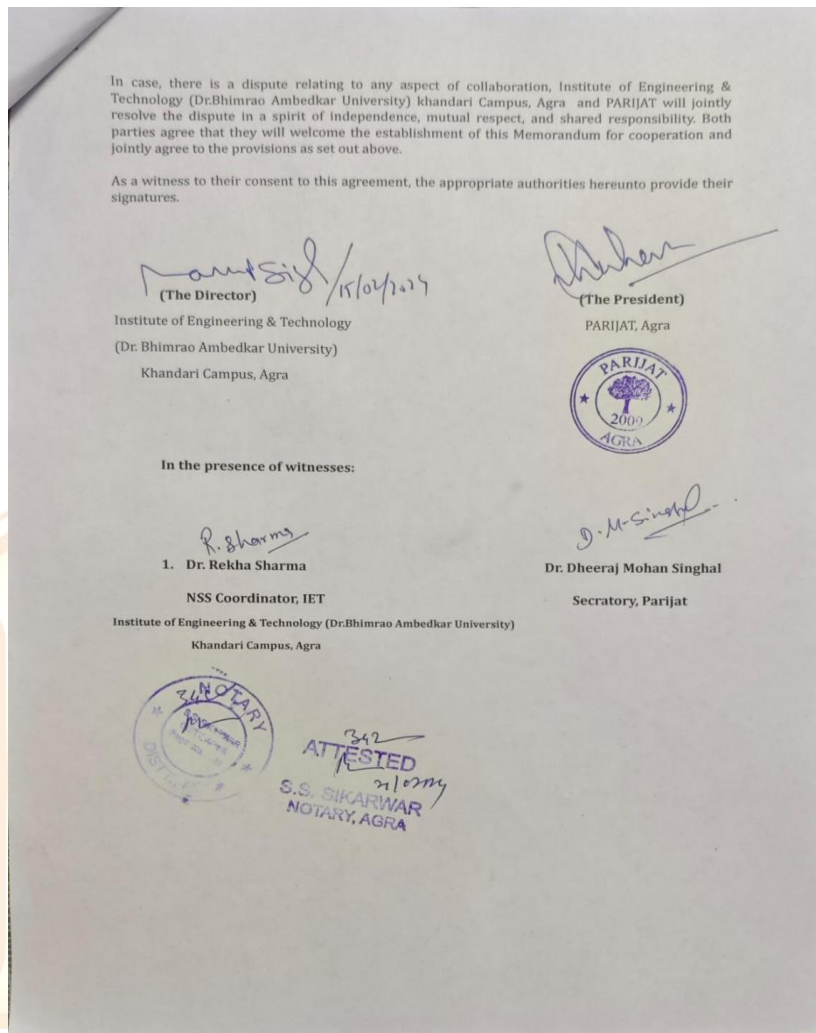


YEARS 1927-2027

The University received the **Best Clean and Green Campus Award** from **Parijat** in 2023, accepted by the Vice-Chancellor, Prof. Ashu Rani. It is a regional award rather than a national one, but it reflects work that residents of Agra can see for themselves. the University has a Memorandum of Understanding (MoU) with this NGO. The collaboration aims to strengthen environmental education by integrating sustainability practices into academic activities, campus initiatives, and community outreach programmes. Through this partnership, the University organizes awareness campaigns, plantation drives, clean-campus initiatives, waste management programmes, and environmental education activities that encourage students, faculty, and staff to adopt environmentally responsible behaviour.



Pic- Mou With PARIJAT



Regional Knowledge Centre for Air Quality Management under Uttar Pradesh Clean Air Management Program

Dr. Bhimrao Ambedkar University (DBRAU), Aggra is proposed as one of the Regional Knowledge Centres (RKC) under the Uttar Pradesh Clean Air Management Programme (UP-CAMP), with the objective of strengthening regional capacity for monitoring, assessment and management of air pollution. The RKC at DBRAU will function as a technical and knowledge-support centre for Aggra and its surrounding catchment areas, contributing to the development of a skilled green workforce and supporting evidence-based air-quality management in Uttar Pradesh. The proposed RKC network is intended to serve as focal points for air-quality-related activities across the state.

The major work to be undertaken at DBRAU will include establishment and operationalization of a Basic Air Quality Laboratory equipped for collection and analysis of ambient air samples, assessment of pollution levels, stack monitoring support and related environmental

investigations. The centre will also undertake systematic air-quality data collection, analysis and interpretation to identify major pollution sources and trends in the Agra region. Where applicable, the RKC will support real-time source apportionment, emission inventory development, receptor modelling and dispersion modelling, thereby providing scientific inputs for air-quality management planning.

A major responsibility of the RKC will be to provide technical support for Continuous Emission Monitoring Systems (CEMS), stack monitoring and road-dust sampling within its designated catchment area. The centre will assist relevant industries, institutions and agencies in monitoring emissions, interpreting monitoring data and identifying opportunities for pollution reduction. It will also develop an internal monitoring mechanism for tracking air-pollution-abatement activities, identifying implementation gaps and recommending corrective measures.

The RKC will undertake impact assessment and applied research studies related to air pollution and its effects on public health, ecosystems and the economy. Faculty members, researchers and students will be encouraged to undertake interdisciplinary projects, field investigations, data-driven studies and innovative solutions for air-pollution mitigation. Collaboration with government departments, pollution-control agencies, industries and other academic institutions will be promoted to convert research findings into practical interventions.

Another important area of work will be capacity building and development of a green workforce. DBRAU will organize training programmes, workshops, awareness programmes and skill-development activities covering ambient air-quality monitoring, road-dust monitoring, agricultural emissions, stack monitoring, CEMS, air-quality planning, emission inventories, source apportionment, data analysis and dissemination. Training will also include clean-energy technologies, clean cooking, community mobilization and behavioural change.

The RKC will further promote citizen engagement and environmental awareness through outreach programmes involving students, communities, industries and local stakeholders. Online learning modules and certified training programmes will support wider dissemination of technical knowledge. The centre will also document successful pollution-control practices and contribute to their replication in other areas.

Overall, the proposed RKC at DBRAU will work as a regional hub for air-quality monitoring, research, capacity building, stakeholder engagement and pollution-abatement support, thereby strengthening the scientific and institutional capacity of the Agra region and contributing to the broader objective of cleaner and healthier air in Uttar Pradesh

**MEMORANDUM OF UNDERSTANDING
(MoU)**

Between

**UTTAR PRADESH CLEAN AIR MANAGEMENT PROJECT
(UPCAMP) AUTHORITY**

Formed under the Department of Environment, Forest & Climate Change
Government of Uttar Pradesh

Office at: Directorate of Environment and Climate Change (DoECC)
Vineet Khand, Gomti Nagar, Lucknow, Uttar Pradesh

AND

DR. BHIMRAO AMBEDKAR UNIVERSITY, AGRA

Campus at: Office of Vice Chancellor, Dr. Bhimrao Ambedkar University, Agra,
Paliwal Park, Agra, U.P. – 282004

To

Establish Dr. Bhimrao Ambedkar University as a Regional Knowledge Center (RKC) under UPCAMP and to set up a collaborative framework to strengthen scientific, technical, and institutional capacity for air quality management towards achieving the development objective of UPCAMP.

This Memorandum of Understanding is executed on this 03 day of June, 2026.



UPCAMP AUTHORITY



DR. BHIMRAO AMBEDKAR
UNIVERSITY

13.4 Commitment to carbon neutral university

The university is committed to achieving carbon neutrality by reducing greenhouse gas emissions and promoting sustainable practices across the campus. It focuses on improving energy efficiency, increasing the use of renewable energy, and reducing dependence on fossil fuels. Sustainable transportation, waste management, water conservation, and green building practices are also encouraged to minimize the university's carbon footprint. Regular monitoring and assessment of carbon emissions help identify areas for improvement. Through these initiatives, the university aims to create a low-carbon, resilient, and environmentally responsible campus while contributing to global climate action.

13.4.1 Commitment to carbon neutral university year(2026-2030)

Vision

To transform the University into a carbon-neutral and climate-resilient campus by reducing greenhouse gas (GHG) emissions, increasing renewable energy use, improving resource efficiency, and fostering a culture of sustainability through education, research, and community engagement.

Mission

The University is committed to integrating climate action into governance, teaching, research, infrastructure, and campus operations while achieving measurable reductions in its carbon footprint in alignment with the United Nations Sustainable Development Goal (SDG) 13 – Climate Action.

Implementation Approach (2026–2031)

DBRAU will follow a structured pathway, consistent with best-practice frameworks and its existing energy audit and Green Clean Campus.

1. **Establish** a core carbon team and governance structure (2026).
2. **Identify and measure** all significant direct and indirect sources of CO₂ and other GHG emissions on campus, updating the 2025 baseline inventory with complete, accurate data.
3. **Prioritise** abatement opportunities based on potential, cost-effectiveness, and feasibility (“easy wins” first, then systemic changes).
4. **Reduce** emissions through:
 - **Energy efficiency:** LED retrofits, HVAC optimisation, building automation, sub-metering, and behavioural campaigns.

- **Renewable energy:** Scaling rooftop solar and other clean energy sources for lighting and other campus needs, building on existing plans to switch to solar energy.
 - **Electrification and mobility:** Transition of campus fleet to EVs, promotion of e-shuttles, cycling, and walking; rationalisation of generator .
 - **Sustainable procurement and waste:** 3Rs (Reduce, Reuse, Recycle), systematic paper and e-waste recycling, plastic-free campus enforcement, and exploration of waste-to-biofuel and composting .
 - **Food and land use:** Low-carbon menu options in canteens, scientific recycling of organic waste, biodiversity conservation, and enhancement of campus green cover (building on existing tree inventory).
5. **Offset** any remaining emissions with high-quality, verified credits or on-campus carbon sinks (afforestation, urban greening), only after maximising reductions.
 6. **Document and validate** progress and achievements in line with recognised carbon-neutrality standards and third-party verification where available.
 7. **Sustain** carbon neutrality through ongoing monitoring, periodic target updates (every two years), and continuous improvement.

Governance and accountability

To operationalise this commitment, the University will:

- **Establish a Carbon Neutrality Cell / Climate Action Committee** comprising senior leadership, facilities, finance, academics, student representatives, and external experts.
- **Approve a Carbon Neutrality Roadmap** with clear interim milestones, responsibilities, and resource allocations for energy, buildings, transport, procurement, food, waste, and land use.
- **Embed climate KPIs** into performance frameworks for relevant units and link progress to institutional reporting and accreditation processes where appropriate.
- **Publish an annual Carbon Neutrality Report**, including inventory results, progress against targets, key initiatives, challenges, and plans for the coming year.


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		Policy for the protection and equal treatment of women and transgender persons Read About Policy
SDG 6 – Clean Water and Sanitation	Ensure availability and sustainable management of water and sanitation for all	Collapse policies Policy on Water Resource Conservation and Sustainable Management Read About Policy
SDG 7 – Affordable and Clean Energy	Ensure universal access to reliable sustainable and modern energy	Collapse policies Policy for affordable and clean energy Read About Policy
SDG 8 – Decent Work and Economic Growth	Promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work	Collapse policies Policy for presenting "best employee award" to the employees of the university.

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SDG 13 – Climate Action	Take urgent action to combat climate change and its impacts	Collapse policies Adoption of sustainable development goals Read About Policy
		Sustainable investment policy Read About Policy
		Policy for climate Action for sustainability Read About Policy
SDG 14 – Life Below Water	conservation and sustainable use of the	Collapse policies

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SDG Goals 1-9
 1. No Poverty

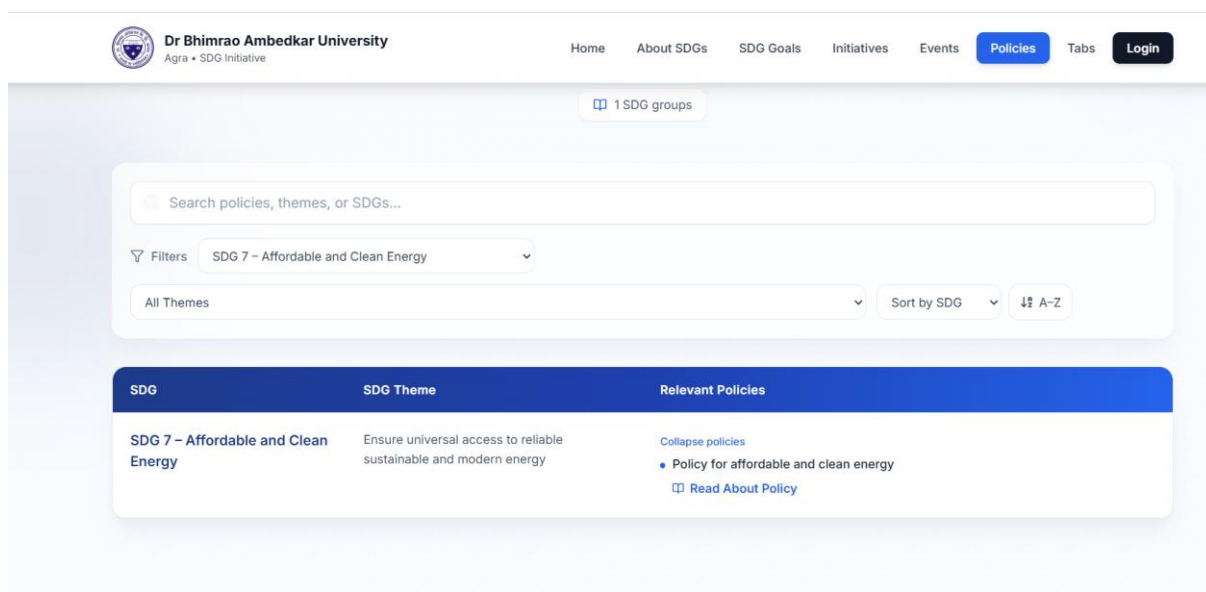

SDG Goals 10-17
 10. Reduced Inequalities

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Source: <https://www.dbrausdg.in/policies>

Policy for clean energy - Through this policy, the institution seeks to progressively reduce its carbon footprint, improve energy efficiency, increase the share of renewable energy, and create a climate-conscious campus. The implementation and progress of clean-energy initiatives are periodically reviewed through energy audits, sustainability assessments, and

documentation of energy-saving measures.



The screenshot displays the website of Dr. Bhimrao Ambedkar University Agra - SDG Initiative. The navigation bar includes links for Home, About SDGs, SDG Goals, Initiatives, Events, Policies (highlighted), Tabs, and Login. Below the navigation bar, a search bar is present with the placeholder text "Search policies, themes, or SDGs...". A filter dropdown is set to "SDG 7 - Affordable and Clean Energy". Below the filter, there are options for "All Themes", "Sort by SDG", and "A-Z". The main content area shows a table with the following structure:

SDG	SDG Theme	Relevant Policies
SDG 7 - Affordable and Clean Energy	Ensure universal access to reliable sustainable and modern energy	Collapse policies • Policy for affordable and clean energy Read About Policy

13.4.2 Achieved By date –

By 2030, the institution intends to strengthen its climate-action initiatives and establish measurable improvements in energy efficiency, carbon-emission reduction, renewable-energy adoption, environmental awareness, and climate-resilient infrastructure. Progress will be monitored periodically through institutional sustainability assessments, energy audits, environmental audits, and documentation of SDG-related activities.

The 2030 target aligns with the global timeline of the United Nations Sustainable Development Goals and provides a clear framework for the institution to progressively contribute to climate-change mitigation and adaptation.