



AMITY
UNIVERSITY
— GURUGRAM —

REPORT ON SUSTAINABLE DEVELOPMENT GOAL



SDG 11:
Year 2022-23





PREAMBLE: SDG-11

Sustainable Development Goal 11 (SDG 11 or Global Goal 11), titled "sustainable cities and communities", is one of 17 Sustainable Development Goals established by the United Nations. And Amity University Haryana is committed to aim Sustainable cities and communities. Moreover, India has witnessed a phenomenal growth in its population and hence the need for making cities and human settlements inclusive, safe, resilient and sustainable which represent the future of global living. This document summarizes some of the initiatives taken by the University towards addressing this.

Since its inception the university has progressively grown keeping with the principles of environmental justice by caring for its resource base, which includes native vegetation, the water environment, and architectural design. The University is conscious of its obligations to conserve the environment and adheres to the concept of sustainable development. The buildings at the University provide access to safe, inclusive and accessible, green and public spaces, for women and children, older persons and persons with disabilities.



Safe affordable housing for promoting inclusivity provided to labour

Leed Platinum certificate:

AUH is the FIRST university campus in India and the SECOND in Asia to be recognized with the US Green Building Council's LEED Platinum Certificate. Holding the LEED Platinum Certificate, University is maintaining the optimum equilibrium with the environment in all aspects of building, design, landscape design, water and energy conservation, operation, and its maintenance





SUSTAINABLE TRANSPORT

The university provides access to safe, affordable, accessible and sustainable transport systems for daily commuting of day scholar and faculty and staff.

The University hires a fleet of buses having "Pollution Under Control" certificate for each vehicle entering the university. The use of public transport is encouraged, to ensure less carbon footprints as it is remotely located and for improving road safety, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.

The automated system of the solar energy system takes the reduction of carbon footprint into account. The "No Smoking Zone" policy is carefully followed on campus. The university utilizes VMware and embraces green computing, and electronic e-waste is disposed of by approved R2 certified vendors. N-Computing has honored Amity with the award of "Go Green Innovation."

- (a) Bicycles: Students & Staff are encouraged to use cycles on campus for a better environment
- (b) Public Transport: Buses for Students, Tempo Travelers for Faculty & Staff, Cars for University use and Ambulance are available.
- (c) Pedestrian Friendly Roads: the roads connecting the campus and within the campus itself are well maintained in terms of quality with lush green belts accompanying the roadsides.

ACCESS TO CAMPUS LIBRARY AND GREEN SPACES:

The Herbal Garden, Organic Farm , open and green spaces and other facilities are easily accessible for the local community and school students.



ARTS AND HERITAGE CONTRIBUTION

The university puts in a lot of efforts to protect and safeguard the world's cultural and natural heritage. The curriculum of the university promotes study of cultural and natural heritage under the Amity Centre for Indic Studies and Amity center for Yoga to instill Indian traditional values and principles in students. The open lush green spaces near the symbolic banyan tree, the art gallery and innovation gallery at the university are open for the local community and its stakeholders.

The students club at the University organizes large number of events promoting Art & Culture and carry out a lot of social work to promote humanity.

<https://www.amity.edu/gurugram/student-club.aspx>

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COURSES COVERING SDG

The courses in the curriculum are related to arts covering various aspects of Indian culture, values, and ethics. Students can pursue BA& MA Fine Art., Architecture and Planning, Interior Design and can opt for electives like Performing arts for the learning of music, various forms of dancing, Painting, fine art and study Sanskrit as foreign Language. A total of 223 Students are enrolled in these programs

SUSTAINABLE STAY OF BIRDS

The University publishes a flora & fauna booklet every year to ensure that native plant species are adopted for landscaping and plantations. The abundance of birds and butterflies on the AUH campus attests to the campus's ecological soundness, which is mostly due to its natural plant patches. During the biodiversity survey, 146 birds and 40 butterflies were documented inside the campus. University conducts plantation drive on regular basis comprising native, fruit bearing and shady plants including Sahtut, Babool (Kikad), Lasoda, Akash, Neem, Alstonia, Neem, Shisham, Mango, Ficus, Amaltash, Kadamb, Chakresia, Tikoma, Pipal, Champa, Rabbis Palm, Ficus Panda, Kalandara, Yucca, Hamelia, Chandni, Cycus, Synghonium, Guava, Kinnow, Belpatra, Aavla, Jamun, Custurd Apple, Strawberry, Arjun, Jatroofa, Jacfruit, Grapes, Peach, Pear etc.



AFFORDABLE HOUSING FOR EMPLOYEES/ STUDENT

Amity University Haryana provides comprehensive residential facilities, accommodating over 2,000 students in hostels and housing more than 200 families of academic and staff members on campus. To support work-life balance, the university offers crèche facilities for faculty and students' children, for convenience and comfort an on-campus grocery store, fruit and vegetable market, dairy product outlet, and shopping center, designated parking spaces for staff, faculty, wardens, and students are also provided. For emphasizing sustainability and self-sufficiency, University cowshed with over 40 cows, providing fresh milk to residents, Organic farming promoted on campus fields, supplying fresh vegetables, pulses, and fruits. These amenities enhance the quality of life for residents, fostering a thriving community within the university.

AUH offers diverse dining options through six cafeterias, mess facilities, and food trucks, serving students and residents. Excess food is donated to nearby slum areas daily. Notably, our campus minimizes food waste, with an average of only 40 kg/day remaining uneaten.



Leadership and Governance

The university has a well-defined accommodation policy in place for its stakeholders. The allotment of the residential facilities is as per the norms laid in the policy which forms an integral part of the university SOPs and processes.

MOUs & Collaborations

Agreements have been signed with the various food joints located within the campus.

RESEARCH ON SUSTAINABLE CITIES AND COMMUNITIES

Amity University fosters sustainability through research and academic programs in urban planning and renewable energy. Strategic collaborations with local communities, government, and businesses enable the development and promotion of innovative, eco-friendly solutions

Listed below few research (Publications/ Projects/Articles) in the field of Sustainable cities and Communities:

- Ravindra Rahigude, Dr Doreshor Khwairakpam, Sanjay Rade, Krupali Kadam- “Construction waste management in the context of de-tools, industry 4.0 & circular economy, a critical review of pune metropolitan area, India”.
- Geetika Verma, Naveena Kakara- “Physical, Social and Economic Condition in slums of Gurugram- A comparative study”.
- Dilip Singh Kushwaha, Dr. Ila Gupta, Dr. Mohd. Khalid Hassan, “Rejuvenation of Urban Water Bodies in Indian cities” - A Case study of Delhi.
- Eti Agrawal, Dr. Pallavi Sharma, Prof. Md. Farhan Fazli,” Influence of Humankind and Climate Change on Freshwater Supplies”.
- Avijit Chauhan, Dr. Pallavi Sharma & Hina Zia, “Optimized siting of Municipal Solid Waste Landfill using GIS-Based Approach”.
- Avijit Chauhan & Dr. Pallavi Sharma, “A Meta-Analysis of Research in GIS Based Approach & Strategies for Resourceful Solid Waste System”.

Post graduate students are involved in their final semester in a number of projects to promote sustainable development goals of SDG-11. The project topics are stated below:

- Student Nithya A, has submitted a research project on “Impact of Textile Industries on Environment” - A Case Study of Erode, Tamil Nadu. The aim of the study was to analyze the impact of textile industries on the environment and bring sustainable measures for them.
- Rahul Kaushik, has worked on “Green Infrastructure for Urban Resilience”, Gurugram, Haryana.
- Student Ruchi Gupta prepared a project on “Crime Prevention through Spatial Planning in Nagpur City”.
- Akul Sharma, final year student submitted on “Mapping of Natural Disaster-Prone Areas in Hilly Communities”: A Case Study of Manikarna Special Area, Himachal Pradesh.
- Marcia Arun Paul submitted on “Planning Strategies for Sustainable Sanitation in Nagpur City”.
- Another student Sutar Asmita Ramesh, prepared a very good project on “Impacts of Urbanisation on City's Sustainable Development” - A Case of Virar City, Maharashtra. In this study the student examines the impact of rapid urbanization on sustainable development in Virar City, Maharashtra, considering challenges such as excessive dependence on Mumbai and the forthcoming major infrastructure projects intensifying the pressure on the city.



HAPPENINGS & EVENTS

The student club 'Amigreen', 'Yuva', 'Ek Awaaz' are involved in the Plantation Drive under the campaign of "MISSION GREEN" for making the participants understand the importance of building a green planet under the Mission Green campaign for environmental sustainability.

The university organizes various webinars, workshops, and guest lectures to promote sustainable cities and communities in an inclusive environment as under:

A seminar on "Catalysis for Sustainable Development", was organized in April 2023, where student learned about how catalysis can be performed in by greener way. The speaker discussed the basics of catalysis and biomass which are used as fuels and petrochemicals.

A Guest Lecture on "Sustainable Washroom Range of Products" was conducted in December 2022. The resource persons were Mr. Abhay Sharma, Senior manager, Euronics Industries Pvt Ltd. The students were informed about the current trends, product options and fundamental usage of sustainable restroom designs.

"SDG's Learning, Training & Practice workshop on Circular Economy & Zero waste campus program", conducted in November 2022, with an objective transform Amity University Gurugram into a Zero Waste Zone and to implement Industry 5.0 concepts which includes systematic prevention of waste, Gharaage hub-creating valuable products from waste generated and unique Materials Recovery Facility (MRF) for all the waste being generated.

A guest lecture focused on "Design Concept and Realization was organized to make students aware regarding the concept of luxury in building interiors its scope, importance and challenges.

An FDP on "Role of Higher Education in Conserving Indigenous Technologies for Sustainable Heritage ", organized to impart the faculty members from various universities and courses, a comprehensive orientation to the Indian cultural heritage, to comprehend the indigenous building technologies as a manifest of the culturally rooted knowledge systems of India.

A seminar was organized featuring International Trends in Architecture on the topic "Tropical Architecture & Sustainable Architecture: Perspectives from Florida" for faculty member wherein the resource person Dr. Vandana Baweja gave a presentation on how to design sustainable buildings by taking the local climate into consideration. Her presentation had examples from the Tropical architecture of Florida. She also talked about the opportunities of doing Master's in the architecture program at the University of Florida.





GLIMPSES OF THE EVENTS



Community Engagement for Sustainability-Outreach activities

As a part of curriculum, students are actively involved in Community engagement projects that are mapped with Sustainable Development Goals. Continuous efforts towards building better communities by creating awareness towards Sustainable heritage, interiors and buildings, zero waste are made by the students. Furthermore, various students' clubs are involved in outreach projects for promoting the SDG goals. The university helps with housing facilities for the labor working in the campus and their children are also given classes on basic education, drawing skills, painting and life skills. Thus, promoting inclusive, safe, resilient housing for the betterment of the community.



11 SUSTAINABLE CITIES AND COMMUNITIES



The United Nations Sustainable Development Goals (SDGs) are the focus of Amity University Haryana of Eminence. The four pillars of our approach to the SDGs are research, teaching, basic institutional practices, and collaborations.



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Amity University, Amity Education Valley, Gurugram, Manesar
Helpline: 7303 399 399 | admissions@ggn.amity.edu | amity.edu/gurugram