



AMITY UNIVERSITY

HARYANA

(Accredited with Grade 'A' by NAAC)

Report on Sustainable Development Goal



SDG 15: Life on Land Year 2021



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Amity University Haryana lush green 110 acre of campus is located at the lap of nature in popular Aravali mountain's chain in south of Haryana and is highly conscious about protecting natural habitats and biodiversity which is critical to support global food and water security, climate change mitigation and adaption and peace and security. The University is meaningfully contributing to the SDG-15 through following measures:

- Following sustainable green practices in the campus supporting natural habitats and biodiversity
- Sustainable water management and waste management practices
- Protective land degradation through various green initiatives in the campus and local vicinity
- In-house events and outreach activities for creating awareness among local community

Natural Vegetation: Tree plantation is most celebrated activity here in Amity on every occasion. The two-tier plantation has been done along the campus boundary. University also maintains all support to sustain plantation including a nursery, a well functional green house (to care sapling), a composting unit to provide organic manure and trained man-power to carry out horticultural work. University also maintains an organic orchard which harbors large number of horticultural plant varieties and also medicinal plant garden mainly for student awareness and conditioning through field work.

AUH ensure adoption of native species of vegetation for plantation and landscaping. Due to natural vegetation patches AUH campus is very much ecologically sound reflected by large number of birds and butterflies inside the campus. A total 120 type of birds and 40 butterflies are documented inside campus during biodiversity survey. 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, Syngonium, Guava, Kinnon, Belpatra, Aavla, Jamun, Custurd Apple, Strawberry, Arjun, Jatroofa, Jacfruit, Grapes, Peach, Pear* etc.

Water Environment: AUH campus is zero water discharge campus. Since this region receives water only through rain-fall, consumption of water must be supplemented with recycling, reuse and rain water harvesting. All measures are adopted to ensure reduction, recycling and reuse of water is adopted at University campus with all supportive infrastructure i.e. rainwater harvesting, water recharge, waste water treatment, water efficient tabs, flush, native plantation with least water requirements and many more.

Plastic free campus

The campus is trying its best to minimise the use of plastic. In this concern the stores and even the food stalls are motivated to use paper and jute bags for packing. In this regard other activities are like Swachh Bharat Abhiyan, Farmer Training & Herbal Garden

Green landscaping with trees and plants

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Tree Plantation Drive at AUH



Organic Farm & Student Visit



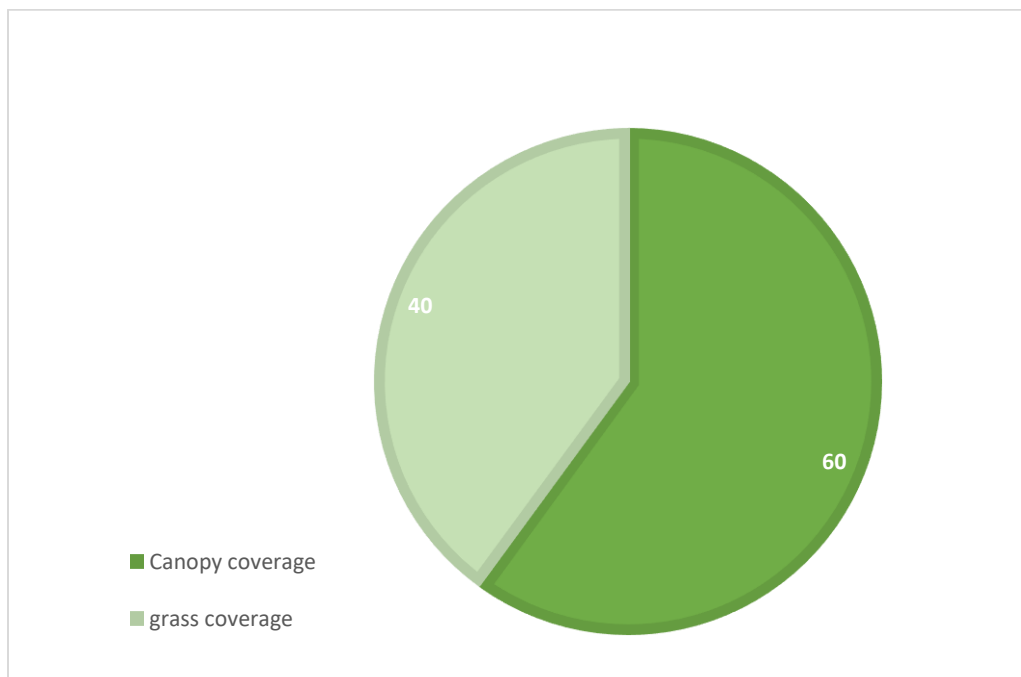
Green Landscaping with Trees and Plants at AUH

GREENERY AT CAMPUS

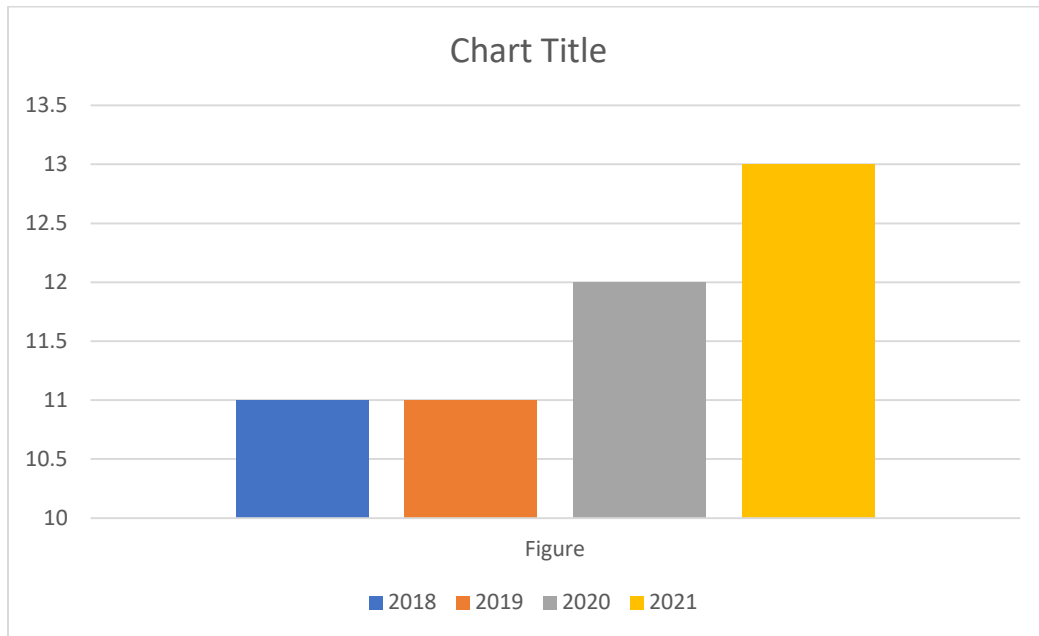
In University the total land area is 110 acres from this only 36 acre is taken by buildings or infrastructure rest 74 acre is green area which includes Trees, shrubs and Lawns and playground. Mostly multipurpose trees are planted along the side of the roads, which gives aesthetic feel, shadow and they are fast growing, native so easy to maintain like Alstonia, Shisham, Neem, Peepal Ficus, Sagwan, Poplar Indian Mahogany, Frangipani, Pilkhan etc .



The green cover consist of trees and grass cover around the university which are 60% of trees and 40% of grass cover as represented below.



Statistics of grass cover area in the AUH is represented as below. 11 acre (44515.4 sq. m) grass covers in the years 2018 and 2019 increases to 12 acre (48562.3 sq. m) during year 2020, which further increases to 13 acre (52609.1 sq. m) in year 2021.



Sustainable Management of Land for Agriculture and Tourism

Organic farming practices have been followed at the campus agriculture land and food grown on campus farms is as below:

- Pulses and legumes (350 kg)
- Wheat and cereals (12500 kg)
- Spices and herbs (80 kg)
- Potatoes (3000 kg).
- Milk from campus dairy: 91082 l and 95798.5 liters respectively in years 2020 and 2021.

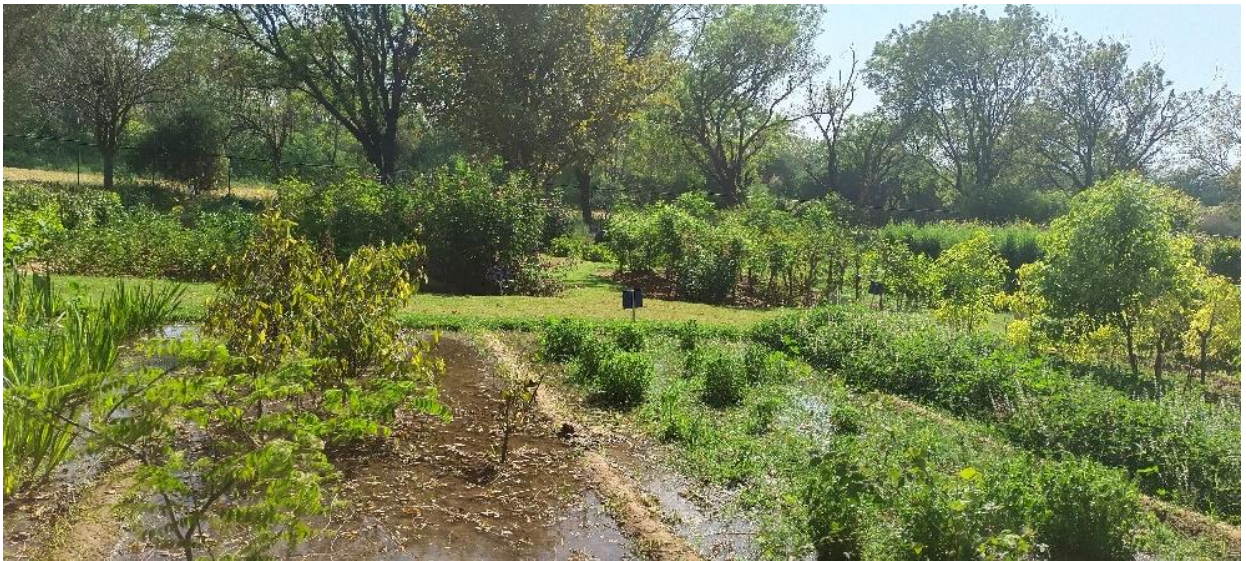
Maintain Biodiversity of Current Ecosystem:

200 years old banyan tree in the campus:



HERBAL GARDEN

AUH campus has 5 acres of herbal garden with rich resources for advanced research in the field of medicinal plants. The herbal garden is treated as a field laboratory for creating awareness amongst students and visitors. It also plays important role in biodiversity conservation, commercial cultivation of medicinal & aromatic plants, production of quality planting material, processing & value addition, education, product development, capacity building, education and consultancy, marketing, database and publications.



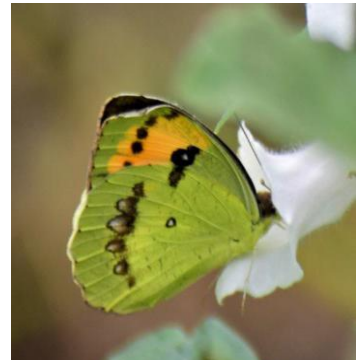
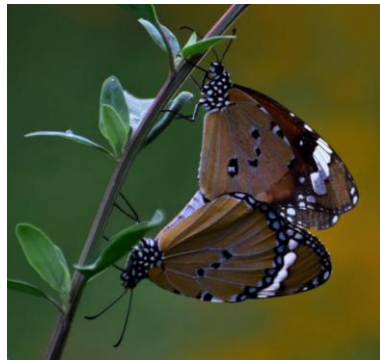
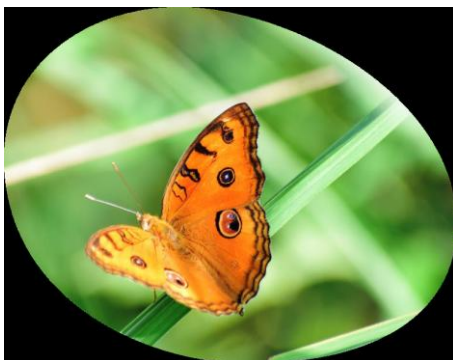


UNIQUE HERBAL GARDEN FOR CONSERVING BIODIVERSITY



RICH IN FLORA AND FAUNA

AUH has very rich flora and fauna. There are large number of species available in the campus. As per research Gurugram region of Haryana, India has 49 types of butterflies out of which more than 40 types of these butterflies were found in the campus during one of the survey.



Also, during one of the survey large numbers of species of birds (more than 139) were recorded. It is one of the most diverse bird counts in the National Capital Region (NCR) of India which includes Waterfowl, Herons, Shorebirds, Pigeons, Doves, Cuckoos, Barbets, Bird of Prey, Owls, Crows, Hornbills Mynas, Wagtail, Flycatchers, Babblers, Parrots, Shrikes, Drongo. Some unique birds are also the part of this family like Indian Pitta, Small Minivet, Knob billed duck Spotted Owlet, Red Avadavat, Peafowl etc.



BIOGAS PLANT

AUH have a 3 cubic meter capacity biogas digester, which converts the cow dung into biogas, which is used for cooking and the bio slurry that is by product of this process is used as organic fertilizer. This organic fertilizer not only improves the soil health but increase the crop yields in the agriculture fields of the university. Bio-lamps are also installed for lighting in the organic vegetable garden.

The biogas from a cow dung-based biogas plant can be further refined to produce pure methane which can be utilized for production of bio hydrogen. This initiative for Biogas utilization for illumination will inspire others to develop a demonstration unit for production of bio hydrogen.



DOG TRAINING CENTER

Amity University Haryana has a dog training center in its campus. This dog unit started with four Great Dane pups has now 76 dogs of varied breeds. The dog academy rears dogs, trains them in various fields of expertise such as tracking, guarding, explosive detection and patrolling. AUH is the only private university not only in the country but in the entire world which is training dogs for the safety and security of its institutions, staffs and students. Besides training the dogs for in-house use, this academy also trains dog handlers from various central government armed and police forces.





COW SHED AND MILK PRODUCTION

Amity University Haryana is having cow shed in its campus. This cow shed is providing protective shelters to cows and AUH is utilizing the cow dung and cow urine as fertilizer for organic farming in the farm fields of the campus. Also, the cow dung is used to make biogas which is used for different purpose like cooking, lighting etc. in the campus. Currently at AUH cow shed, 94 female cows which include different variety like HF, HF Mix, Jersey, Jersey Mix, Gir, Sahiwal etc. The milk production of these cows is around 180-190 liter per day which is performed both manually by workers and mechanically by using automatic milking systems. The produced milk is used by the AUH family which includes students, staff members and management and also by nearby community.





BEE KEEPING AND FARMERS TRAINING

Amity University Haryana organized various training programmes for the farmers to train them about the process and methods of bee keeping, various farming techniques including organic farming to increase their productivity and income.



मधुमक्खी पालन व्यवसाय पर प्रशिक्षण
 एनबीटी न्यूज, गुड़गांव: एमिटी यूनिवर्सिटी के कैम्पस में मधुमक्खी पालन पर व्यवसाय के प्रशिक्षण का आयोजन किया जा रहा है। भारतीय कृषि अनुसंधान संस्थान के कृषि विज्ञान केंद्र की तरफ से आयोजित प्रशिक्षण में गांव बाघकी और आसपास के क्षेत्र के युवा इसमें भाग ले रहे हैं। इसका शुभारंभ कुलपति प्रो. पीबी शर्मा ने किया और प्रशिक्षणार्थियों से मुलाकात की। कृषि विज्ञान केंद्र के कीट वैज्ञानिक डॉ. भरत सिंह ने जानकारी दी कि प्रशिक्षण के दौरान परीक्षा प्रशिक्षणार्थियों को मधुमक्खी पालन की वैज्ञानिक पद्धति के बारे में बताया। इस अवसर पर सहायक प्रोफेसर डॉ. विवेक बालियान में सभी प्रशिक्षणार्थियों से मधुमक्खी पालन को एक स्वरोजगार के रूप में अपनाने की सलाह दी।





AGROVOLATICS

Amity University Haryana has setup an agri-voltaic farm in its campus for utilization of the same land area for developing solar photovoltaic power plant and for agriculture too. In addition to the same, this agri-voltaic farm is used for conducting research by the scientists of the AUH.



WASTE MANAGEMENT POLICY

The University has Solid Waste Management Policy aimed at following objectives:

- Protect the environment and public health
- Conserve natural resources
- Minimize landfilling and/or incineration and reduce toxicity

The following table lists recyclable wastes at the campus and their disposal method and handling procedures:

Source/Consumables	Disposal Method	Handling Procedure
Glass, Plastic, Metals,	Building occupants dispose of these	Amounts are tracked and taken

Paper/newspapers, Cardboard	recyclables in separately provided collection points on each floor. Cleaning staff sorts commingled recyclables out of the trash and delivers, to central waste collection area.	away by hauler on a regular basis for recycling
Mercury-containing Lamp	Custodial staff collects fluorescent lamps and stores the unbroken lamps for disposal.	Taken away by an authorized hauler for safe disposal, in accordance with local regulations on disposal of products containing mercury.
Batteries	Building occupants deliver batteries to a specially-designated collection point for disposal proper disposal	Taken away by an authorized hauler on a regular basis for proper disposal
Durable Goods (Electronic Waste and Furniture)	Building management provides a secure collection area to store durable goods that have reached the end of their life within the building but still have value and may be donated re-used.	Amounts are tracked and taken away by an authorized hauler or re-use center on a regular basis for recycling.
Building Materials	Building management coordinates with contractors to collect construction waste for re-use/recycling.	Amounts are tracked and taken away by an authorized hauler at the end of the demolition/construction period for recycling.
Toner/Cartridges	IT department keeps waste toner/cartridge at a designated area.	Amounts are tracked and taken away by the vendor to replace with the new ones.