

Report on Sustainable Development Goal



SDG 12: Responsible Consumption & Production Year 2021



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Amity University Haryana is committed to promote sustainable management practices and efficient use of resources to deliver responsible consumption and production patterns through its operations by implementing sustainable policies and practices. The University is well aware of its responsibilities in raising awareness and propagate the idea of responsible consumption and production practices in the community in an inclusive and sustainable manner that further promotes the basic tenets of SDG 12.

WASTE MANAGEMENT PRACTICES

The University Waste Management Policy is clearly focussing on reuse and recycling of different kindl of waste to protect the environment and public health, conserve natural resources and minimize landfilling and/or incineration and reduce toxicity.

Amity University Haryana being an educational institution, the key operations do not significantly impact the environment. The less waste we produce, the less we have to dispose. As per UN mandate to develop university as 'live lab of sustainability', Amity University Haryana is very conscious of generating less waste and recycling it by passing it through a system that enables the substance to be reused. Many of system are integrated with development plan of university since beginning like infrastructure for rainwater harvesting, treatment of effluent and waste water, proper drainage pattern and many more. The waste generated in university is divided into three different types for their management and disposal, which is as follow:

- (a) Solid Waste
- (b) Liquid Waste
- (c) e-waste and other hazardous waste

Solid Waste: The waste is generated by all sorts of routine activities carried out in the university. It includes paper, plastics, glass, metals, foods, etc. The waste is segregated at each level and source. The administrative supervisor in each block ensures that the waste in each floor is collected at designated time intervals.

The block housekeeping staff in each floor collects the waste in the dustbins provided at each floor. The floor dustbins are emptied in movable containers/dustbins provided for each block and is taken to the dumping yard provided by the university. The University has contacted an authorized vendor who collects the waste from the designated place, segregate them, recycles them and disposes them at the landfills authorized by the government.



Garbage Shed

Open Area Dustbin



Open Area Dustbin

Open Area Dustbin

The organic waste collected from farm house is disposed through bio gas production and composting infrastructure available at campus. The by-products are further utilized locally for heating and manure.



Liquid Waste: Liquid wastes generated by the University are of two types:

- (i) Sewage waste
- (ii) Laboratory, Laundry and Cafeteria effluent waste

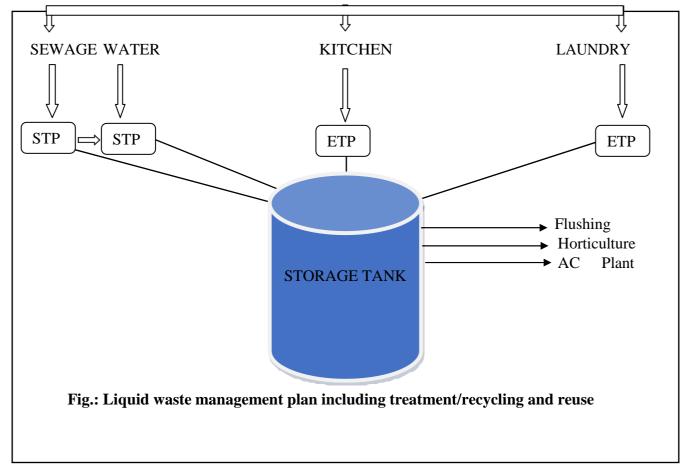
The above waste is treated through a network of Sewage Treatment Plants (STPs) and Effluent Treatment Plants (ETPs) which is a combined arrangement of anaerobic and aerobic treatment of organic waste followed by oxidation ponds. After treatment, treated water is subject to basic filtration followed by its reuse at different use purposes including horticulture, farm irrigation, toilet flush and cooling plant. A separate treatment unit is developed to cater laundry effluent.

The operation and maintenance of sewage and effluent treatment plant is taken care by a dedicated and expert team which ensures efficient functioning of treatment unit. In winter and rainy seasons treated water is used to recharge groundwater.

| | STP | Location | Capacity in Litters/day | Туре |
|---|------|--------------------|----------------------------|-----------|
| , | STP1 | Near Faculty Flats | 4,50,000 | Aerobic |
| , | STP2 | Near Faculty Flats | 4,50,000 | Anaerobic |

The following are the details of STPs and ETPs installed in the university

| ſ | ETP | Location | Capacity in Liters/day | Туре |
|---|------|--------------------|------------------------|---------|
| ſ | ETP1 | Near Faculty Flats | 50,000 | Kitchen |
| | ETP2 | Near Faculty Flats | 20,000 | Laundry |



Liquid Waste Disposal plan

<u>e-waste</u>: Desktop, Printer, Camera, Wi-fi devices, used Blank Cartridges, Speakers, Mouse, Keyboard, UPS, Projector Screen and Biometric Machine etc. are recycled properly. University maintains an inventory of all electronics items catered by IT departments and monitors its optimal performance and disposal after service period. Instead of buying a new machine buyback option is taken for technology upgradation. The e-waste generated from hardware which cannot be reused or recycled is being disposed-off through authorized vendors as mentioned below.



ETP

ETP Laundry Unit



Pump Room

Oxidation Pond

Fig.: Wastewater treatment

PROGRAMMES AND COURSES

The University is committed to promoting sustainable consumption and production through several modules contained within courses delivered.

| Sr | Programme Name | Level | URL |
|----|------------------------|----------------|--|
| No | | | |
| 1. | MBA (Sustainable | Post Graduate | https://www.amity.edu/gurugram/mba- |
| 1. | Management) | 1 Ost Oldudde | sustainability-management |
| | Executive MBA | | https://www.amity.edu/gurugram/executi |
| 2. | (Sustainable | Post Graduate | ve-mba-sustainability-management |
| | Management) | | ve-moa-sustamaonity-management |
| 3. | M.Tech. (Solar & | Post Graduate | https://www.amity.edu/gurugram/mtech- |
| 5. | Alternate Energy) | 1 Ost Ofacuate | solar-and-alternate-energy |
| 4. | M.Sc. (Renewable | Post Graduate | https://www.amity.edu/gurugram/msc- |
| 4. | Energy) | 1 Ost Ofacuate | renewable-energy |
| | M.Tech (Atmospheric | | https://www.amity.edu/gurugram/mtech- |
| 5. | Technology and Climate | Post Graduate | atmospheric-technology-and-climate- |
| | Management) | | management |
| 6. | M.Sc. (Environmental | Post Graduate | https://www.amity.edu/gurugram/msc- |
| | Sciences and | i ost Oracuale | environmental-sciences-and-management |

| | Management) | | |
|----|---|-------------------|---|
| 7. | B.Sc. (Hons) - Earth Sciences | Under Graduate | https://www.amity.edu/gurugram/bsc- hons-earth-sciences |
| 8. | Ph.D. (Earth and Environmental Sciences) | PhD | https://www.amity.edu/gurugram/phd- earth-and-environmental-sciences |

A) Minor Specialization Elective Track offer to all Under Graduate Programmes

| Sl. No. | Track with details of courses | | | |
|------------|--|--|--|--|
| 1. | Climate Science | | | |
| | Semester 1- AST2151- Basics of Climate Science | | | |
| | Semester 2- AST2251- Introduction to Earth System | | | |
| | Science Semester 3- AST2351- Cloud Microphysics and | | | |
| | Chemistry Semester 4- AST2451-Climate Change: Impact, | | | |
| | Vulnerability | | | |
| | and Adaption | | | |
| | Semester 5- AST2551- Primer of Oceanography | | | |
| | Semester 6- AST2651- Fundamentals of Climate Variability | | | |
| | and Modeling | | | |
| 2. | Disaster Management & Sustainable Built | | | |
| | Environment Semester 1-DSM2151-Introduction to | | | |
| | Disaster Management Semester 2-DSM2251-Resilience | | | |
| | Building for Built | | | |
| | Environment | | | |
| | Semester 3-DSM2351-Emergency Management | | | |
| | Semester 4-DSM2451-Rehabilitation Reconstruction | | | |
| | and | | | |
| | Recovery | | | |
| | Semester 5-DSM2551-Climate Change Adaptations and | | | |
| | Sustainable Development | | | |
| | Semester 6-DSM2651-Geoinformatics in Disaster | | | |
| | Management | | | |
| 3. | Dietetics & Nutrition | | | |
| | Semester 1-DAN2151-Principles of Nutrition | | | |
| | Semester 2-DAN2251-Family Meal | | | |
| | Management Semester 3-DAN2351-Basics | | | |
| | Dietetics | | | |
| | Semester 4-DAN2451-Advanced Dietetics | | | |
| | Semester 5-DAN2551-Community Nutrition | | | |
| | Semester 6-DAN2651-Food Chemistry | | | |
| 4. | Environmental Management | | | |
| | Semester 1- ENV2151- Environmental Studies-I * | | | |
| | Semester 2- ENV2251- Environmental Studies-II * | | | |
| | Semester 3- ENV2351-Environmental Pollution and | | | |
| | Waste | | | |
| | Management | | | |
| | Semester 4- ENV2451-Environmental Management and | | | |
| | Industrial Safety | | | |
| | Semester 5- ENV2551-Environmental Economics and | | | |
| | Globalization | | | |

| | Semester 6- ENV2651-Sustainable Development Practices |
|----|---|
| 5. | Entrepreneurship Semester 1-MGT2152-Orientation Programme in Entrepreneurship |
| | Semester 2-MGT2252-Exploring Business |
| | Opportunity Semester 3-MGT2352-Developing a |
| | Business Model |
| | Semester 4-MGT2452-Translating Business Model into |
| | Startup Semester 5-MGT2552-Advanced Programme in |
| | Entrepreneurship: |
| | Growth Semester 6-MGT2652-Advanced |
| | Programme in |
| | Entrepreneurship: Expansion |
| 6. | Environmental Health & Climate |
| | Semester 1-AST2152-Linkages between Environment and Health |
| | Semester 2-AST2252-Climate Change and Implications on |
| | Public Health |
| | Semester 3-AST2352-Diseases in Contemporary |
| | Society Semester 4-AST2452-Air, Water and Soil Pollution, |
| | Environmental Health |
| | Professions Semester 5-AST2552-Ground-based and |
| | Satellite Remote |
| | Sensing |
| | Semester 6-AST2652-Instrumentation Lab |
| 7. | Polymer Technology |
| | Semester 1-PTE2151- Polymerization |
| | Semester 2-PTE2251-Waste Plastic |
| | Recycling Semester 3-PTE2351-Polymer |
| | Technology |
| | Semester 4-PTE2451- Rubber & Tyre Technology |
| | Semester 5-PTE2551-Polymeric Nano Composites Semester 6-PTE2651-Bio-Medical Plastics |
| 8. | Renewable Energy |
| 0. | Semester 1-SAE2151- Renewable Energy Conversion |
| | Systems Semester 2-SAE2251- Introduction to Solar |
| | Thermal |
| | Engineering |
| | Semester 3-SAE2351- Introduction to Solar |
| | Photovoltaic Semester 4-SAE2451-Energy from |
| | Wastes |
| | Semester 5-SAE2551- Renewable Energy for Heat |
| | Applications |
| | Semester 6-SAE2651- Energy Audit and Energy Management |
| | Ivianagement |

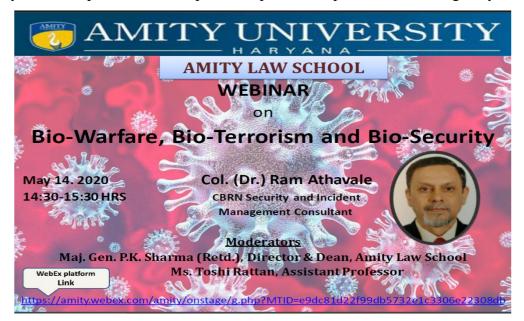
PLASTIC FREE CAMPUS

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.

EVENTS/ACTIVITIES

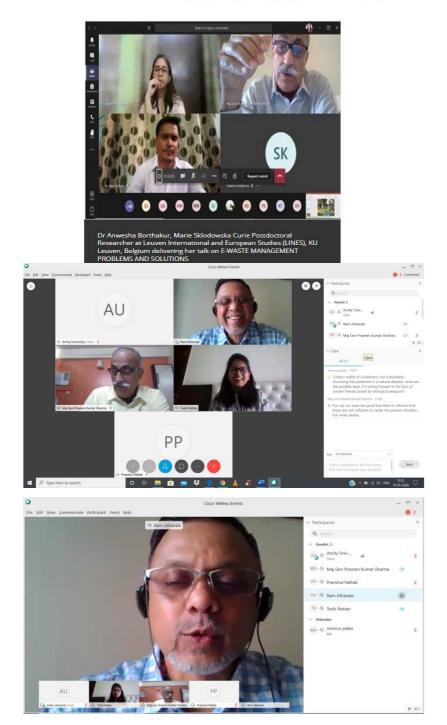
Webinar on 'BIO-WARFARE, BIO-TERRORISM AND BIO-SECURITY'

Amity Law School organized a Webinar on the topic 'Bio-Warfare, Bio-Terrorism and Bio-security' on May 14, 2020. The idea behind this Webinar was to enlighten the participants on the topic and provide them with an assessment of the present crisis being faced as well as similar future crisis that may arise so that correct and authentic information is available to all on the crucial yet not so common subject. Proper information generation and awareness on impending dangers arising out of bio-warfare, bio-terrorism and bio-security are very important for building a responsible society that in turn has to promote responsible consumption and production practices in conformity SDG 12. The Speaker for the said Webinar was Col. (Dr) Ram Athavale, a proud military veteran and a CBRN Security Specialist. The Webinar highlighted the alarming threats of Bio-Warfare and Terrorism and acquainted the participants with the meaning and scope of terminology like CBRN, HAZMAT and various hazard signs. Col Athavale highlighted the CBRN threats existing today and categorized them under two heads viz, natural and manmade. Bio-Terrorism as explained by the esteemed Panelist is deliberate and not the accidental release of manmade Bio-Warfare agents. The Webinar equipped and enlightened the participants about the crucial issue of Bio-Warfare, Bio-Terrorism and Bio-Security and addressed the need of development of a Bio Secure environment and promote responsible social practices that necessarily entails responsible consumption and production practices as envisaged by SDG 12.







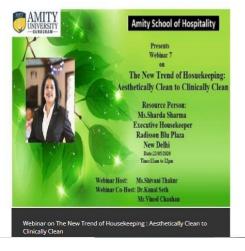


MITY UNIVERSITY

21 May 2020 | Gurgaon (Manesar)

Webinar on The New Trend of Housekeeping : Aesthetically Clean to Clinically Clean on 21st May 2020

ABOUT CAMPUS ACADEMICS PROGRAMMES INFRASTRUCTURE HAPPENINGS CONTACT



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