



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)
Dundigal - 500 043, Hyderabad, Telangana

ANNEXURE-26

GREEN CAMPUS POLICY



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GREEN POLICY

The relationship between Institute of Aeronautical Engineering (IARE) and nature is a long and enduring one, something that students and staff are aware of. Ours is known for its “Clean and Green” Campus where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus and beyond the campus. The green campus concept offers the institution an opportunity to take the lead in redefining its environmental culture through instilling environmental ethics among students and staff. Institute also promotes “Clean and Green” campus through adopting, practicing and promoting environmentally friendly practices among students and staff to generate Eco-consciousness among them and in the world around them.

Scope of the Policy

The Green campus, energy and environment policies will develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints of energy efficiency, sustainability and the environment.

The focus areas of this policy are:

- Clean Campus Initiatives
- Landscaping Initiatives
- Clean Air Initiatives
- Infrastructure Initiatives
 - Installation of Energy Efficiency Equipment
 - Water Conservation through Rainwater Harvesting System
- Waste Management processes
 - Solid Waste Management
 - Liquid Waste Management
 - E-Waste Management
- Awareness Initiatives
- Implementation of Green Audit, Energy Audit and Environmental Audit

Objectives:

- Continuously improve the efficiency and effectiveness in use of all resources, including energy and water, and to reduce consumption in the amount of waste produced, recovering and recycling waste where possible.
- Make the campus plastic free.
- Conduct Environmental and Energy audits from time to time.
- Minimize the use of paper in administration by following the policy for E-governance.
- Protect and conserve ecological systems and resources within the campus.
- Integrate environmental concerns into policies, plans and programmes for social development and outreach activities.

ENVIRONMENTAL POLICY OF THE INSTITUTE

The Institution is committed to manage its campus in accordance with responsibilities towards promoting sustainable environment.

Clean Campus Initiatives

Institute had pledged to actively coordinate cleanliness activities in accordance with the vision of Swachh Bharat Abhiyan. The broad vision is as follows:

1. Activities under 'Swachh Bharat Abhiyan' will be a key component of all the community work being done by NSS volunteers of the college.
2. Staff Members and students will be encouraged to participate in the cleanliness drive in the college campus.
3. Rallies will be conducted to create mass awareness.
4. Remove all kinds of waste material like broken furniture, unusable equipment etc.
5. Pledge taking by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
6. Commit to manage waste and maintain clean campus especially during college events.

Landscaping Initiatives

The campus landscape, like its buildings, can be seen as the physical embodiment of a college's values. It plays a vital part of the life of a campus, providing space to study, play, outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage runoff, clean and cool the air on campus. As campus landscapes are so visible and accessible, landscaping initiatives are the great way to build awareness around the environment. The landscape of trees and plants provides the students and staff with clean and cool air to have a soothing environment.

Clean Air Initiatives

Institute encourage the students and staff to use public / college transportation, instead of using individual vehicle, an activity that will control air pollution and strengthen social interaction. The students are given strict instructions to maintain the campus clean and it is reflected in their handbooks. A gardener and the fulltime supporting staff are appointed for the maintenance of litter free "Clean and Green" Campus.

In compliance with the framework provided by the National Tobacco Control Program (NTCP) 2007-2008, institute strictly prohibits smoking and the use of other tobacco products. As a step in this direction, smoking and use of tobacco in and around the campus "Smoking free Campus" is strictly prohibited.

Restricted Entry of Automobiles

To prevent huge vehicles from accidentally entering into the campus, institute established a restriction on automobile admission. Institute has two gates in which big gate is opened only during sentry of automobiles, and small gate is used for entry for pedestrians, with this type of facility there is no chance of accidental entry of automobiles in the campus. The Institute have a group of buses to transport many students from different places within the twin cities and also in suburban areas. This initiative helps in reducing pollution and consumption of petrol.

Bicycles / Battery Powered Vehicles

In order to have a 'Go Green' environment, the Institution takes several measures to control pollution. One such initiative is encouraging students to use bicycle while coming to college. Separate parking space is provided for the students to park them. Students/ Faculty who come by bicycles or battery-operated vehicles are honored with a GO GREEN BADGE.

Infrastructural Initiatives

Energy conservation:

The various energy conservation measures adopted in the campus, from time to time, includes replacement of all the CRT monitors by LCD monitors in each and every department laboratories, retrofitting standard fluorescent lamps and CFL lamps with LED lighting, introducing automatic street lighting control to reduce energy wastage due to manual errors, upgrading window air conditioners into split air conditioners.

Energy audit of the institute and the campus has been done. While designing the buildings, care has been taken to fetch maximum benefit from natural resources, like wind, sunlight to reduce consumption of electricity. The use of transparent glass windows provides maximum sunlight to classrooms and

Laboratories. We have centralized UPS systems for computers. Generator is placed away from the classroom, to minimize noise pollution.

Use of LED bulbs

The institute has maximum number of LED bulbs and tubes for all its lighting needs inside the campus to conserve energy. This is quite visible in all recent renovation projects. The overall institute is fully focused by LED bulbs. It decreases energy consumption and saves the cost of maintenance. A well designed hi-tech LED lighting system can provide safety and financial benefits for campus. Apart from financial benefits, there are other benefits like saving energy and going green.

Energy Saving and Energy Efficient Equipment

The following tips are implemented to save Electrical Energy

1. Activate power management features on computer and monitor so that it will go into a low power “sleep” mode when you are not working on it.
2. Turn off monitor when not in use.
3. Activate power management features on laser printers.
4. Whenever possible, shut down rather than logging off.
5. Turn off unnecessary lights and use daylight instead.
6. Avoid the use of decorative lighting.
7. Keep lights off in auditorium, conference rooms, classrooms, lecture halls when they are not in use.
8. Use the fans only when they are needed.

Water Conservation through Rainwater Harvesting System

Institute has committed itself to this effort to replenish the groundwater table by practicing rainwater harvesting. This practice helps in the replenishment and recharge of the groundwater.

Waste Management Processes

Institute strives to have a minimal impact on the environment and is dedicated to reduce and manage the waste generated in the campus. The following specific procedures will be undertaken to ensure its contribution in protecting the environment.

Solid Waste Management

Institute pays dedicated focus to see that minimal waste is generated in the campus. All departments, classrooms and corridors are provided with dustbins for dry wastage disposal aim to provide holistic education that also has a positive impact on the environment, institute will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).
- Reduce use of paper by supporting digitization of attendance and internal assessment records.
- Encourage the students and teachers to use modern teaching-learning methodologies.
- Take initiatives to spread awareness amongst students about
 - Food wastage and ways of minimizing it.
 - Minimizing the use of packaged food.
 - Organizing workshops for students on solid waste management.

Liquid Waste Management

Students are made aware that conserving water is equivalent to conserving their future. The following procedures are adopted for the effective implementation of Liquid Waste Management.

- In house – plumbers attend promptly to fix leakages and wastage of water.
- Maintain leak proof water fixtures.
- Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.

E-Waste Management

With the proliferation of electronics also comes the challenge of their proper disposal. The College is grappling with ways to efficiently and cost-effectively handle the issue of electronic waste, or e-waste, on campus. It's normal for people to discard products due to normal wear and tear, but technological advancements have accelerated e-waste growth as students, faculty and administrators frequently upgrade to better gadgets.

The college adopts most scientific and eco-friendly e-waste disposal mechanisms such as: AMC is maintained to periodically review the effective functioning of CPU's and monitors and expert recommendations are followed to dispose the same in the market. All Electronic waste CPU's, Hard disks, laboratory equipment scrap is sent periodically to the market for sale. Obsolete workable computers, printers and other equipment discarded by departments are sold as scrap. UPS Batteries are recharged and repaired by the suppliers.

Paperless Operating Procedure

Institute is striving towards a paperless office, a work environment in which the use of paper is eliminated or greatly reduced. This is done by converting documents and other papers into digital form, a process known as digitization [E-GOVERNANCE]. We believe that "going paperless" can save money, boost productivity, save space, make documentation and information sharing easier, keep personal information more secure, and help the environment.

Wherever possible automation and digitization are introduced which helped in minimization of usage of paper. Digital storage of documents is one such measure. Institutional data to a great extent is stored in cloud. Technology is used to a greater extent for communication among the staff and the students through telegram rather than paper communication. Whatsapp – class wise groups, Department wise groups, Committee wise groups facilitate E-communication and use of public address systems reduces usage of paper in notices and circulars.

In addition to going paperless in the classroom, the institute have rich content storage portal (Akanksha) Learning Management System, where students can view all the course material by avoiding massive usage of paper.

Awareness Initiatives

Outreach and education are most important so that all members of the institute may value the objectives of the policy and aid in its implementation. The institute supports and encourages awareness campaigns, seminars, workshops and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies.

Implementation of Green Audit, Energy Audit and Environment Audit

Institute aims to regularly conduct a Green Audit to assess strengths and weaknesses to further our goals of long-term sustainability. A green audit is a useful to determine how and where most energy or water or resources are being used. It can determine the type and volume of waste. Recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of eco-friendly practices on campus. Green auditing will promote financial savings through reduction of resource use.

The institute conducts **Green Audit** every year to identify, quantify, describe and prioritize a framework of Environment Sustainability in compliance with the applicable regulations, policies and standards. A gardener and fulltime staff are appointed for the maintenance of clean and Green campus.

An **Energy Audit** to be conducted as and when required to further reduce its carbon footprint. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools will identify wastage of energy. Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the institute will not be able to detect. These flaws often have easy and affordable solutions and provide significant savings.

Plastic-Free Campus

Institute has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a "Plastic Free Campus". Following the MHRD and UGC guidelines on 2nd October, 2019 to educational institutions across the country, institute issued a notification to students and staff that there would be a ban implemented on the use of single use plastics in the campus.

The institution through NSS, and other clubs conducts sensitization programs on the harmful impact of single-use plastics and mandates all the students to avoid bringing non-bio-degradable plastic items to the institution, which include plastic bags, cups, plates, small drinking water bottles, straws and sachets. The institution facilitates environment friendly substitutes like stainless steel, washable and reusable tumblers at all water units and mandates the canteen to serve only in stainless steel plates / paper plates / paper cups to systematically ban the use of plastics on the campus. It also encourages the students to sensitize their respective households about the harmful effects of plastics and make their households plastic-free. These strategies are incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus.