



B. N. C. E. T.

B.N. College of Engineering & Technology

(Approved by A.I.C.T.E (Ministry of H.R.D., Govt. of India & Affiliated to A.K.T.U, B.T.E., Lucknow (UP))

GREEN CAMPUS POLICY

Introduction

The relationship between **B.N. College of Engineering & Technology** and nature is a long and enduring one, something that students and staff of the college are aware of. Ours is known for its "Clean and Green" Campus where environmental 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. The College also promotes "Clean and Green" campus through adopting, practicing and promoting environmental 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 of the Policy

- To 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.
- To make the campus plastic free.
- To conduct Environmental and Energy audits from time to time.
- To minimize the use of paper in administration by following the policy for E-governance.
- To protect and conserve ecological systems and resources within the campus.
- To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.

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4. Infrastructural Initiatives

Energy conservation:

The various Energy conservation measures adopted in the college 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 and further into BEE certified star rated energy efficient split air conditioners & inverter air conditioners.

Energy audit of the college 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.

1. **Use of LED bulbs**

The college uses 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 college campus 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.

2. **Sensor Based conservation**

The water level sensor is used to control the waste of water flow inside of the water tank. And we can monitor the water ON/OFF flow by using a water level sensor. In our Institution, we are using the water level sensor to control the water flow in tanks. Basically the two 3 Phase pumps are controlled by a sensor unit. When we get the water flow to maximum level, we control the motor in OFF state. And when we receive the lower level water in the Tank; we can ON the motor by using a sensor.

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. Use and install environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies.
8. Keep lights off in conference rooms, classrooms, lecture halls when they are not in use.
9. Use the fans only when they are needed.



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based testing with e- assignments and other skill -based tests like Quiz, MCQs, Presentations, Group discussions etc.,

7. Awareness Initiatives

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. **B.N. Group of Institutions** supports and encourages awareness campaigns, seminars, workshops and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies.

8. Implementation of Green Audit, Energy Audit and Environment Audit

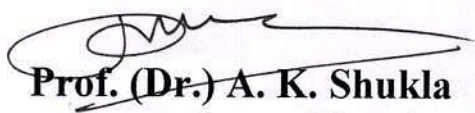
The college aims to regularly conduct a Green Audit of our college campus to assess our strengths and weaknesses to further our goals of long-term sustainability. A green audit is a useful tool to determine how and where most energy or water or resources are being used. The college can then consider how to implement changes and make savings. 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 College 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 full time staff are appointed for the maintenance of clean and Green Campus.

Plastic-Free Campus

B.N. College of Engineering & Technology 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, our college has issued a notification to Students and all Stakeholders that there would be a ban implemented on the use of single use plastics on the campus.

The institution through NSS 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 environmentally friendly substitutes like stainless steel, washable and reusable tumblers at all water units and mandates the canteen to serve only in paper plates and 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.


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