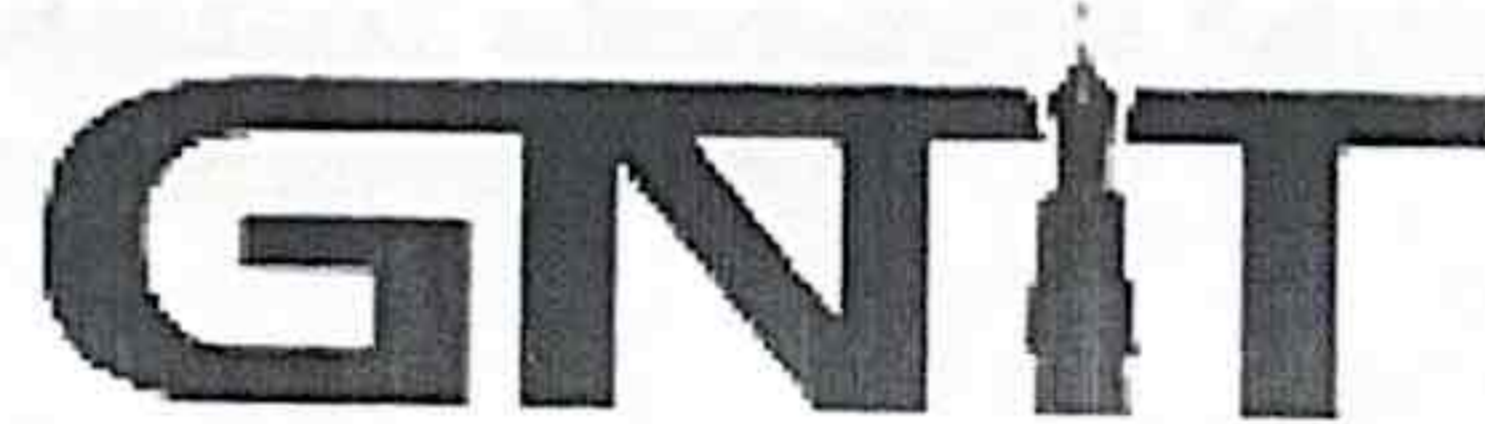


GURU NANAK INSTITUTE OF TECHNOLOGY

Approved by A.I.C.T.E., New Delhi
Affiliated to MAKAUT, West Bengal



Green Campus, Energy and Environment Policy

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Principal
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The Green Campus, Energy and Environment Policy

Context

There is a long-lasting relationship between Guru Nanak Institute of Technology and nature, something that students and staff of the institute are aware of. Since 2003, the Institute has always had sustainable initiatives at the core of all activities. 14.15% of the 7-acre lush campus is used for the Institute building and the rest of the campus has been deployed for Playgrounds, lawns, gardens, ponds and parking shed. A vast area is left in its use for natural habitation and also occupied by grassland, herbs, shrubs and trees.

Scope of the Policy

The Green Campus, Energy and Environment Policies have been framed keeping in mind the holistic development of the students including co-curricular and extracurricular activities that inspire students to come forward in creating positive transformation. This Green campus policy includes a detailed review of all infrastructural, administrative functions from the perspectives of energy effectiveness, sustainability and the environment.

The focuses of this policy are:

- Clean Campus Initiatives
- Landscaping Initiatives
- Clean Air Initiatives
 - ◆ Smoking Free Campus
 - ◆ Plastic free Campus
- Infrastructure
 - ◆ Solar Power Plant
 - ◆ Solar Street Lights
 - ◆ Installation of Energy Efficient Equipment
 - ◆ Water Conservation through Rainwater Harvesting System and Ganga Action Plan
- Waste Management processes
 - ◆ Solid Waste Management
 - ◆ Liquid Waste Management
 - ◆ E-Waste Management
- Awareness Initiatives
- Green Audit
- Energy Audit
- Environment Audit

Objectives of the Policy

- To keep and preserve Eco-System of the campus.
- To confirm thoughtful use of environmental resources for present and future generations.
- To frame all environmental concerns in to policies and plans for social as well as Institutional development.
- To conduct environmental and energy audits from time to time.
- To reduce the power consumption using Power Efficient Equipment.
- To monitor the performance of rainwater harvesting and other water conservation
- To incessantly improve the effective use of all resources like energy, water and to reduce the generation of chemical waste or by products, recovering and recycling waste where possible.
- To make the campus plastic free.
- To minimize the use of paper in administration through having policy for E-governance.
- To arrange awareness camp with all stakeholders and the local community by adopting the good practices that positively affects the environment.

Policy:

Clean Campus Initiatives

GNIT had promised to coordinate cleanliness activities among all stake holders present in the Institute in agreement with the **Swachh Bharat Abhiyan**. The broad vision is as follows:

1. Engendering mass awareness initiative on cleanliness not only for students and staff members but also among local people by landing regular cleanliness drives.
2. Under the umbrella of '**Swachh Bharat Abhiyan**', all the community work to be done by NSS, NCC unit of the Institute.
3. Staff Members will be encouraged to participate in the cleanliness drive in the campus as well as outside the Institute campus.
4. Proper dissemination of events in the form of poster and slogan competitions, essay writing etc. under the aegis of '**Swachh Bharat**' will be organized.
5. Rallies in connection with '**Swachh Bharat Abhiyan**' can be conducted to generate mass awareness.
7. Eliminate all kinds of solid waste material, liquid waste material in daily basis and E-waste management to be incorporated in a timely manner from the Institute.
8. Arrange workshops highlighting energy conservation, green energy for school students.

Landscaping Initiatives

Campus landscape is one of the vital factors in concern to green campus, green environment. Calm and quiet nature to be embraced for the relaxation of mind, Green campus landscapes include surface water, clean and cool air in the campus. The landscape represents the stakeholder's commitment to sustainability campus landscapes to be made visible and accessible, and this initiative can figure awareness among all.

There are different kinds of trees and shrubs on campus along with 80% of grass cover. The trees and plants deliver the 2300+ students and staff with fresh and cool air and an enchanting ambience. The Institute has a wide diversity of fauna and also many birds and other animals are frequent visitors creating a rich faunal diversity.

Institute commits to elevate this glowing environment in nature by

- Organizing annual tree plantation programme cheering student and faculty members to hold tree planting events

Clean Air Initiatives

The Institute management boost the habit of our students and staff to exercise public transportation to minimize air pollution, a movement that regulate air pollution by maintaining harmony among colleagues. The entry of automobiles inside the campus is restricted beyond some point to restrict the use of private cars of outsiders.

Ganga River is not so far from our institute and we feel responsible to maintain our green cover.

♦ **Smoking Free Campus**

As per the guideline of National Tobacco Control Programme (NTCP) 2007-2008, the Institute bans smoking and other tobacco products. Smoking around the campus is also prohibited. There is an Internal Complaint Committee to ensure the anti-smoking policy.

Infrastructural Initiatives

♦ **Renewable Sources of Energy**

GNIT is dedicated to minimize and sustainably manage its use of electricity. The institute trusts in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus.

♦ **Energy Saving and Energy Efficient Equipment**

We obliged to mount environment-friendly electrical appliances and computer with LCD monitor that save energy and lessen wasteful in efficiencies. The Institute trusts in

◆ Water Conservation through Rainwater Harvesting System

The area of the Institute fall of ground water levels. GNIT has dedicated itself to this effort to refill the ground water level by working on rain water harvesting initiatives. This practice helps in the refilling of ground water. The Institute has Government approval to avail the "Ganga Action Plan" so that Institute can implement the water conservation inside the campus.

Waste Management Processes

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

◆ Solid Waste Management

With its aim to provide holistic education that also has a positive impact on the environment, the Institute will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- ◆ Collect paper waste produced on campus and collaborate with scrap dealers.
- ◆ Reduce use of paper by supporting digitization of attendance and internal assessment records.
- ◆ Reduce requirement of printed books by updating the E-books and E-journals collection of the institute library.
- ◆ Encourage the students and teachers to use emails for assignment submissions.
- ◆ Take initiatives to spread awareness amongst students by
 - ✓ Reusing and recycling non-biodegradable products
 - ✓ Organizing workshops on solid waste management.

◆ E-Waste Management

GNIT ensures that its usage of technology and generation of E-waste does not impact the environment. For this purpose, the institute plans to strive towards:

- MOU with External Agency to collect the Institutional E-waste.
- Consciousness amongst students about decrease of e-waste and environment friendly disposal practices for E-waste.
- Encouraging department and society level activities affecting to E-waste management.

Environment-centric Activities

GNIT encourages all the departments and specific student societies like NSS, Women cell, ECO Club and Energy Conservation Cell to organize events, competitions and training sessions that will bring about positive environmental changes at the bottom level. An external agency will conduct Environment Audit to make the Institute Eco friendly.

Conduct Green Audit

The Institute aims to regularly conduct a Green Audit of our institute campus to assess our strengths and weaknesses to further our goals of long-term sustainability. An external agency will conduct green audit in a useful manner to determine how and where most energy or resources are being used. The institute 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.

Conduct Energy Audit

An external agency will conduct energy audit once in a year to measure the amount of carbon footprints. The energy audit, with its specialized tools will identify wastage of energy. Also an Energy Conservation Cell of the Institute will monitor the usage of electricity throughout the year and put the suggestion where require. Such an inspection often reveals several different failings which cause a loss of significant amounts of energy and way to move towards Renewable Energy for Green campus.

Plastic-Free Campus

GNIT 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 institute administration strictly bans the use of Non-biodegradable plastics in its premise to make it a 'Plastic Free Campus'.