GURUNANAK INSTITUTE OF TECHNOLOGY

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

GNIT

Green Campus Policy

(w.e.f. session 2019-2020)

GuruNanak Institute of Technology
157/F, Nilgunj Road, Panihati
Kolkata -700114

Approved by...... BOG

Date...... 07/12/2019

Under Agenda No...... 12

Ref. Number	Compiled & Checked by: Registrar	Approved by: Principal
GNIT/PRIN/IQAC/2019/..84	Sig......... Date	Sig........... 07/12/19 Date ....

REGISTRAR
GURUNANAK INSTITUTE OF TECHNOLOGY
KOLKATA - 700114

Principal
Gurunanak Institute of Technology

Guru Nanak Institute of Technology
Panihati, Sodepur, West Bengal

Green Campus Policy

A Green Campus provide Eco-friendly ambience. Environment friendly education offers an institution the scope to participate in building its environmental culture and emerging new paradigms by establishing sustainable resolutions to environmental, social and economic needs of the mankind.
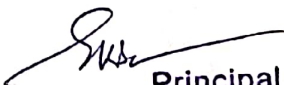
College environmental aims and objectives

- The institute shall set up a working-group drawn from active faculty and students interested to create green action plan and mainstreaming the sustainable development and climate changes in education.
- The institute shall facilitate participatory documentation of its flora and fauna with the help of experts, environmentalists and the student community.
- The performance of waste water treatment, waste recycling, rainwater harvesting and other water conservation measures shall be monitored.
- The single use plastics shall be banned in the campus.
- The objectives of the green committee shall be to reduce carbon and water footprint, enhance water quality and biodiversity in the campus, and time to time update the green policy.

Waste Management
- Take appropriate actions to reduce or recycle municipal waste inside the campus.
- To manage, collect and dispose e-waste appropriately
- Actions taken to restrict plastic use in the campus.
- Display waste management instructions/alerts at prominent/relevant locations in the campus.

Water Management
- Adopting following measures in campus to reduce water consumption
  - Rain water harvesting
  - Change of taps which are either more water efficient or sensor based taps
  - Use of recycled water for watering plants, trees etc
- Display water management instructions/alerts at prominent/relevant locations in the campus.

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Climate Change

- Suitable action taken to reduce carbon footprints due to energy consumption
    - By installing and wheeling the produced solar Energy to the Grid
    - use of energy efficient lamps/sensor based lamps where ever possible like corridors, toilets etc.
    - use of energy efficient equipment in laboratories/ classrooms/ canteen, this can range from air – conditioners, refrigerators, condensers etc.
- Monitoring the entry of vehicles in the college in terms of their fuel efficiency/ hybrid/ battery operated vehicles.
- Promoting the use of public transport.
- Creating awareness by organizing seminars, debates, activities related to climate change, environmental protection, and environmental issues.
- Promoting some projects/experiments in the education system as part of regular curriculum which is related to environmental aspects.
- To encourage the concept of green brigade so as to maximize the students involvement.
- Organizing walk rally to bring awareness against Dengue, Corona and other environmental issues.
- Students and Faculty participating in **Swacchata Pakhwada Drive.**

We intend to pursue a programme of continuous improvement in our procedures, practices and review the policy on a regular basis to evaluate continued relevance and to monitor compliance.

Authorized Signatory
Date:

Principal
Guru Nanak Institute of Technology

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Supporting Document

Green Campus Initiatives

(Criterion 7.1.5)

GuruNanak Institute of Technology
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Kolkata -700114

7.1.5.1. The institutional initiatives for green the campus are as follows:

• Restricted entry of automobiles

• Pedestrian Friendly pathways

• Ban on use of Plastic

• Landscaping with trees and plants

RESPONSE: Guru Nanak Institute of Technology, one of the best engineering colleges in West Bengal, has always taken a green agenda. Despite being primarily a technological institution, it has shown remarkable awareness in maintaining an eco-friendly campus. On visiting the Campus, one can experience the aesthetic and elegant buildings, splendid lawns, spacious sports grounds. Water body and lush green environment conducive for teaching-learning process.

INSTITUTIONAL INITIATIVES:

CREATE AWARENESS TO SAVE ELECTRICITY

In regular basis, Head of The Institution issue the notice for staffs and students to stop wastage of Electricity. All the staff and students take steps for reducing electricity consumption and improving energy conservation in the campus. The institute set up a Green Committee with members drawn from active and interested faculty and students. Use of solar electricity generation also has been be implemented. **The Grid connected Solar PV system of capacity 20 KWp in CAPEX model had been installed having 60 sets of Polycrystalline Solar Panels. There is an agreement between CESC Limited and GNIT to wheel the produced energy to the Grid. Solar Based Street Light Inside the campus has also been installed. Sensor based lighting system is incorporated in Principal room and Conference Hall. It is to be installed in students and staff toilets in next year.**

RESTRICTED ENTRY OF AUTOMOBILES

The institute encourages the staff and students to use the college transport instead of their own vehicles for safety, security, fuel conservation and to reduce environmental pollution. The college buses are checked for pollution by the authorized agency. The vehicles owned by faculty or students with pollution check stickers are permitted into the campus. Random checks are made to check the validation and periodicity of this certificate. For two wheelers or four wheelers, security measures are mandatory.

USE OF BICYCLES

Students and staff coming from nearby villages also prefer bicycle as a mode of transport for attending the college. It is environment friendly and prevents pollution

PEDESTRIAN FRIENDLY PATHWAYS

Vehicle parking space is provided at the main entrance of the college campus. As the campus is vehicle free with some exceptions, students and staff experience comfort walking through the pedestrian friendly pathways. The internal roads are lined with trees and solar lights and they are properly maintained by the campus maintenance committee.

BAN ON USE OF PLASTIC

Single-use plastic items such as plastic bottles, bags, spoons, straws and cups are banned completely and awareness is created among staff and students through orientation and display boards in the premises. To restrict the use of plastic, measures have been taken to replace plastic tea cups and glasses with steel glasses in the canteen. Different Awareness programs to spread awareness about green environment held for the people of the nearby community in regular basis. The staff and students are informed to use steel or copper water bottles instead of plastic bottles.

LANDSCAPING WITH TREES AND PLANTS

Landscaping of the college is worth seeing and reflects aesthetic sense. The institute has a canopy of trees and plants to make the environment pollution free to safeguard the health of all the inmates. The lawns and the trees provide shade and beautiful ambience.

PLANTATION DRIVES BY GNIT

The staffs, the students and the teachers of the institution take part in various tree plantation drive throughout the year inside the campus itself. It is an ideal approach to support the nature, and also create greenery around. This makes it an ecologically balanced environment with both the flora and fauna associated with it. As we plant trees, different animals such as squirrels, birds etc, find their home and make their shelter within them.

The construction, maintenance and beautification committee constituted in the college looks after the development and maintenance of the greenery in the campus. Internal communication in the campus, through e-mail or e-messages, is driving towards paperless office. Library and examination sections are equipped with efficient software. GNIT possess its own Learning Management System (LMS), the ERP system and HASH Portal- the Learning Management System are used for academic activity in the campus.

Fig: Grid Connected Solar System in GNIT Campus (a) Inverter(b) Solar Panel

Fig: Awareness to Save Energy

Fig: Solar Based Street Light inside the Campus

BATTERY POWERED VEHICLE.

A battery powered Vehicle, also commonly known as E-Rickshaw, is very common in the streets of cities these days. Due to high level of pollution and the need for the sustainable consumption of natural resources, led to the formation of Battery powered vehicle, which with the help of the Solar energy, because a solar panel is fitted on top of the vehicle. During the audit, we have observed there is presence of 1 battery-operated vehicle to move within the campus. The battery operated vehicle has solar panel fitted on top so that it can use the energy from the sun to charge itself and can be used for transferring of goods and movement of people within the campus. Also, one of the most significant initiatives that GNIT Sodepur has taken to have a clean and green environment friendly campus is the use of Battery-operated Vehicles to move within the campus so that there is no smoke emitted within the campus and the air gets polluted. The picture below shows the battery powered vehicle Green, Environment & Energy Audit Gurunanak Institute of Technology, 2021 Page 15 of 30 that has been spotted inside the campus that has been spotted inside the campus.

Fig: Battery Powered Vehicle

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Press Clips published in different Newspapers and also on different TV News channels regarding the hosting and conduction of **International Congress on Renewable Energy (ICORE) 2020** where **GNIT was also awarded as** *the only Educational Institute in the Eastern India* **to receive the most prestigious SESI Green Award 2020.**

GNIT has student chapter of Solar Energy Society of India (SESI)

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Fig: Awareness Program "Poster Competition on Save Electricity"

Guru Nanak Institute of Technology

157/F, Nilgunj Road, Panihati, Kolkata-114

Date: 02/08/2020

Notice

All are hereby being informed that the entry of all types of vehicles inside the college campus is strictly restricted. The vehicles of the visitors, or students, are to be parked at the designated parking area near the entrance of the campus.

Dr. Adhish Kr. Chakrabarty
Registrar (Acting)

Copy to:
1. Principal
2. Office
3. HoDs: ASHu, AEIE, CSE, ECE, EE, FT, IT, CA, BHM
4. All notice boards
5. Mr. Debashis Bhattacharya
6. Reception
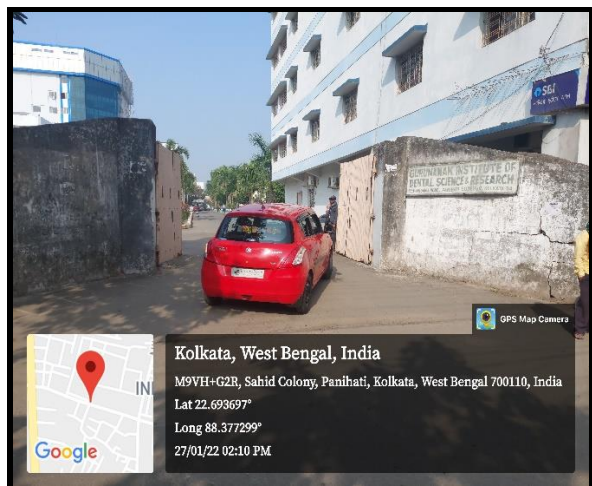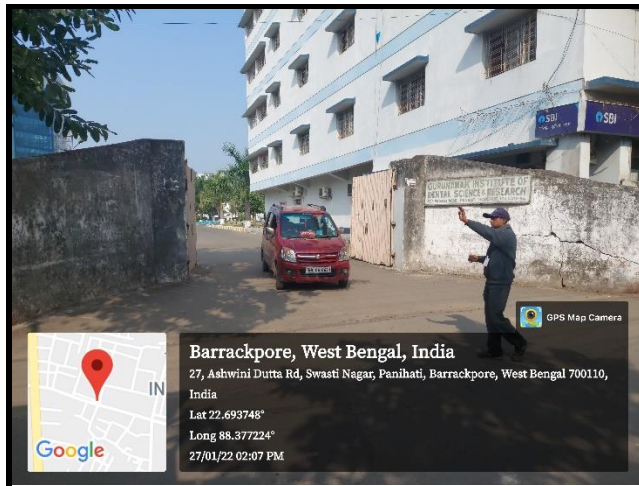7. Security in-charge, Guru Nanak College Campus

Fig: Restricted Entry of Automobiles

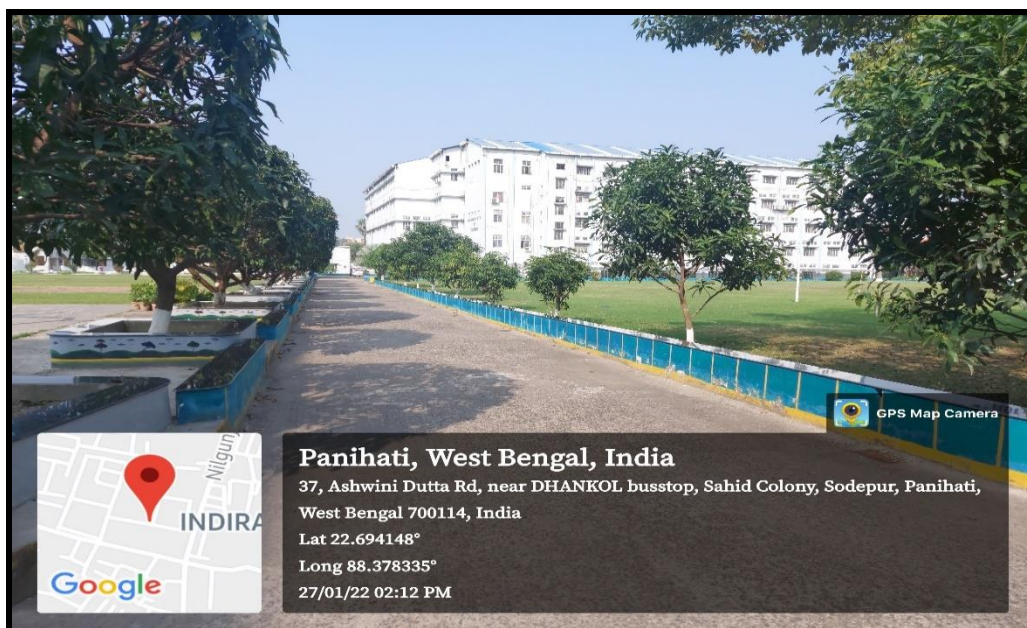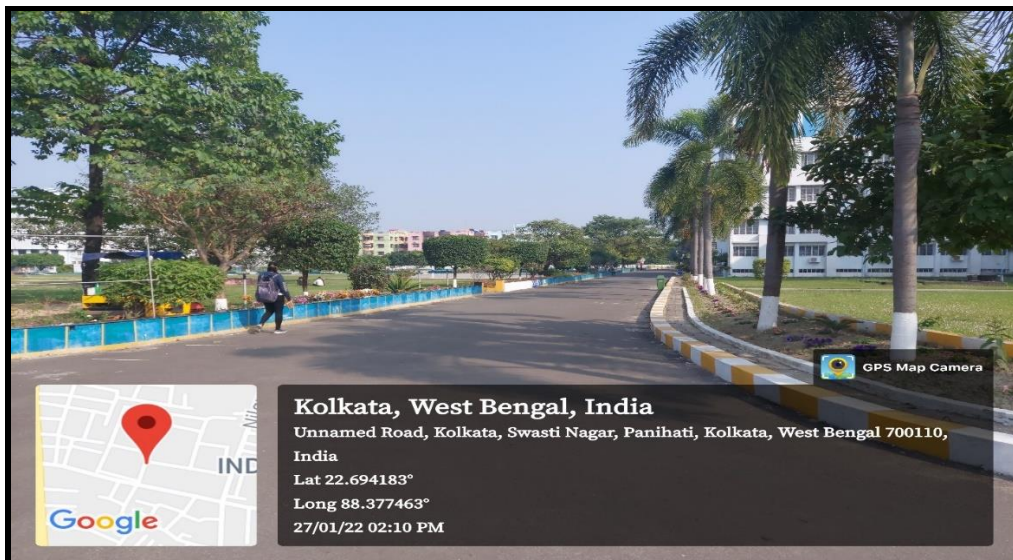PRINCIPAL
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Fig: Pedestrian Friendly Pathways inside the campus

Fig: Engagement of Students to stop use of Plastic in side the GNIT Campus
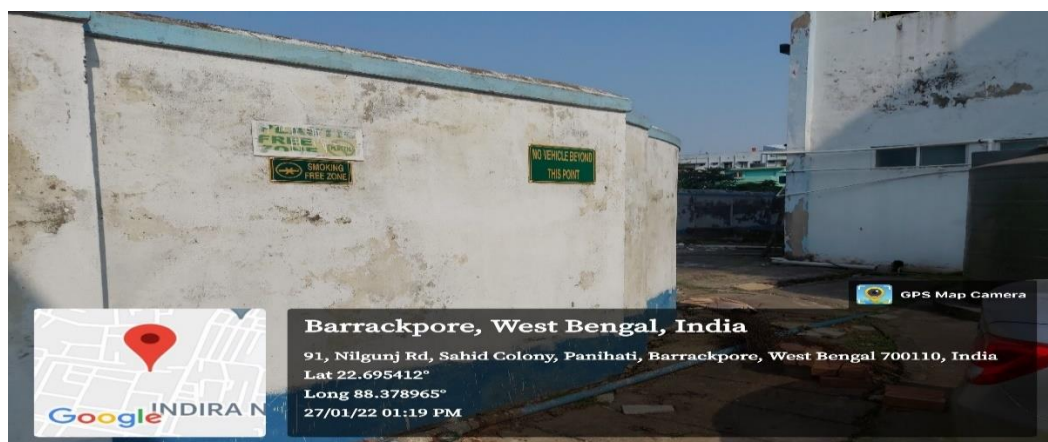
Fig: Plastic Free Zone inside the Campus

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Panihati, West Bengal, India
37, Ashwini Dutta Rd, near DHANKOL busstop, Sahid Colony, Sodepur, Panihati, West Bengal 700114, India
Lat 22.695051°
Long 88.378705°
11/08/21 03:17 PM

Fig: Create Awareness among Students to Ban Plastic inside the Class

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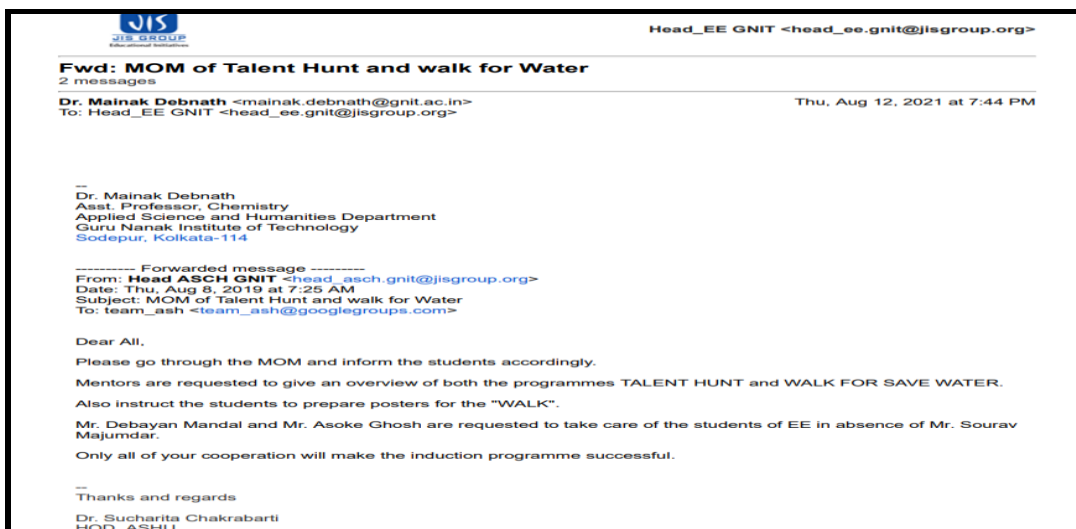
GNIT conducted One Seminar on **Green Revolution** where 47 students of GNIT will be awarded by **United Nations' Framework Convention on Climate Change (UNFCCC)** Committee for their continuous 1 year effort of Green Revolutionary works.

5) GNIT received the prestigious Award in 3rd category in India from **United Nations' Framework Convention on Climate Change (UNFCCC)** for best work of its students for last 1 year on **Green Revolution**

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The below picture is of the playground which is lined with different floral species.

Fig: Landscaping with trees and Plants

Fig: Environment Day Celebration on 2021

Fig: Tree Plantation by Teachers and Students of GNIT

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Beyond Campus Environmental Promotional Initiatives

Dear All,

I feel immense proud and happy to inform you that like previous years, we are organizing **"The 17th Foundation Day of Guru Nanak Institute of Technology on 16th August 2019"**, just one day after the Independence Day. This year, we have organized several events on this auspicious foundation day, as mentioned below:

1) Celebration of Foundation Day with all students, faculty and staff members

2) Distribution of Sweets (Laddu) to all students, faculty and staff members

3) Distribution of Sweets (Laddu) to GNIPST, GNIHM and GNIDSR

4) Rally on **"Walk for Save Water"** consisting of 1000+ students, Faculty and staff members for 2 KM in sodepur main road

5) **Visit to Orphanage and distribution of food packets**

6) **Visit to one School in Slum area** and distribution of Color Pencils, Drawing Pencil and Eraser, Drawing Book and distribution of food packets to poor school children

7) One Seminar on **Green Revolution** where 47 students of GNIT will be awarded by **United Nations' Framework Convention on Climate Change (UNFCC)** Committee for their continuous 1 year effort of Green Revolutionary works.

8) Receiving one Institutional Award by the Principal on behalf of GNIT from **United Nations' Framework Convention on Climate Change (UNFCC)** for best work on its students for last 1 year Green Revolution

9) Tree Plantation

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Brief Report on Swacchata Pakhwada Drive, 2021

Initiation to clean up the college surrounding area

An initiation was taken to clean up the GNIT College surrounding area in collaboration with Panihati Municipality. In this regard, we have talked with the Sanitation Inspector of the local municipality and he assured us to help in every possible way. To materialize our initiation towards the cleaning of college surrounding area, we also met with the Sanitation Inspector again as well as with the Chairman of Panihati Municipality with an application stating our proposal to clean up the college surrounding area. They agreed with us and assured that they would take the initiation in cleaning the area.

All the participants started cleaning the front side of the campus

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Donate E- Waste collection:

By recycling the electronic components valuable materials are recovered from old electronics components which can be used to make new products. The new product is donated among the students of nearby school which is a great initiative taken by GNIT authority.

The students and staff of Guru Nanak Institute of Technology, Sodepur donated the following Electronic Components made from E-waste item at nearby school
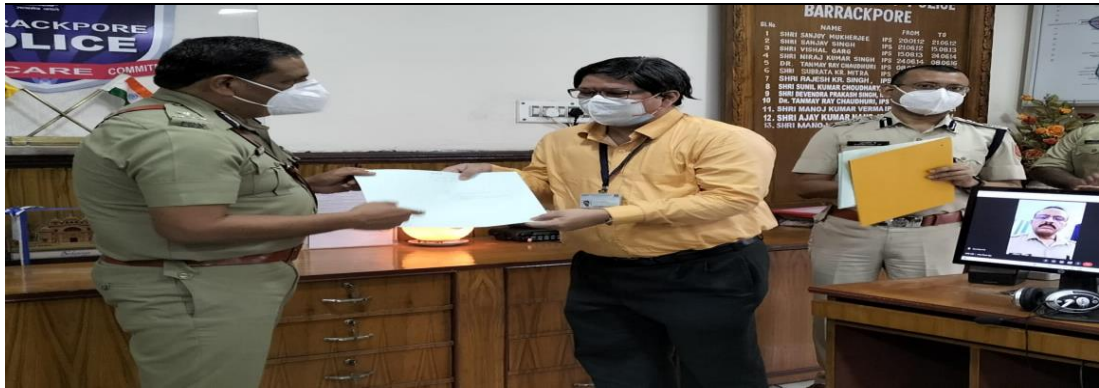

Fig: Computer donation to Barracpore Police Commissioner

Fig: Computer donation to School students nearby schools

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