



# **SRI GURU GOBIND SINGH COLLEGE**

**(Co-educational, Affiliated to Panjab University, Chandigarh)**

**Sector-26, Chandigarh-160019. (0172) 2792754, Telefax: (0172)2790312**

## **BEST PRACTICE**

### **ENVIRONMENTAL SUSTAINABILITY**

**(AQAR 2023 - 24)**

This document contains information regarding the following Green initiatives:

- Objectives of the Practice
- Context of the Practice
- The Practice
  - A. Environment and Sustainability Policy
  - B. Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees
  - C. Committees for Green Initiatives
  - D. Green Cover and Floral Diversity
  - E. Faunal Diversity
  - F. Waste Management
  - G. Water and Energy Conservation
  - H. Research and Development
  - I. Green, Environment and Energy Audits
  - J. Awards and Accolades
- Evidence of Success



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## **TITLE OF THE PRACTICE: ENVIRONMENTAL SUSTAINABILITY**

### **□ OBJECTIVES OF THE PRACTICE**

The College has taken the initiative to sensitise all the stakeholders about the importance of environment conservation and its role in Sustainable National Development. Keeping in mind the National Educational Policy 2020, National Biodiversity Targets 2020, G20 Sustainability goals and Sustainable Development Goals announced by the United Nations, the College adopted the Best Practice of Environmental Sustainability. This best practice incorporates tradition and modernity for improving the quality of life, protection of the ecosystem and preservation of natural resources along with representing cultural diversity.

### **□ THE CONTEXT**

Focusing on Environmental Sustainability is significant to protect the environment from degradation by human activities and alarming climatic changes due to global warming. The College, as a socially conscious entity with a vision for the future, has come forward to take measures to preserve the environment by motivating and involving the younger generation and academia in practices beneficial to the environment. Drawing inspiration from the teachings of the *Gurbani*, the College aims at improving the ecosystem by planting native species of trees and creating their seed bank as a viable solution. Outreach environmental activities are conducted to sensitise wide group of stakeholders beyond campus. The faculty and students are facilitated to conduct studies, research and development pertaining to environmental issues. Tremendous efforts have been made to create social consciousness about environmental sustainability by involving youth and academia through collaboration with government and non-government organisations.

### **□ THE PRACTICE**



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The College follows its Environment and Sustainability Policy while undertaking green initiatives in the campus.

## A. Environment and Sustainability Policy

Policy Document: <https://sggcollege.ac.in/Downloads/POLICIES%2030%20MARCH.pdf#page=15>

## B. Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees

*An Initiative amalgamating the aspects of Environmental Sustainability and Heritage and Cultural Preservation*

The College initiated a novel idea of creating a mini urban forest with an objective to promote a sustainable environment. The mini forest amalgamates the aspects of ecosystem diversity, curative diversity (a wide variety of medicinal plants) and cultural diversity (including spiritual values) successfully. This habitation has flourished into a natural air-purifying dense forest with 600 trees comprising 49 different native species of the region planted in an area of 180 square meters. This novel initiative amalgamates the tradition by selecting species native to the region and modern Miyawaki technique thereby promoting natural restoration of land. A multi-layered natural forest is created by grouping the plants into different layers- shrub, sub tree, tree and canopy – in each 50 m. Outdoor display and Air Quality Display LED panels have also been installed. The forest grown by this methodology grows 10 times faster, 30 times denser and helps to produce more oxygen than that produced by regular plantations. It is developing into a hub of natural biodiversity and is a step towards reducing the carbon footprint of the region. This is a significant contribution towards the National Biodiversity Target 2020 of the Government of India which stresses on the need to spread awareness involving young minds and intelligentsia to play a positive role for restoration, conservation and sustainable use of the vulnerable ecosystem.

- List of 49 Native Species Planted in the Mini Forest

S.No.	Local Name	Scientific Name	Category
1	Semal	<i>Bombax ceiba</i>	Top Canopy
2	Bahera	<i>Terminalia bellirica</i>	Top Canopy



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3	Arjun	<i>Terminalia arjuna</i>	Top Canopy
4	Phulai	<i>Acacia modesta</i>	Tree
5	Shisham	<i>Dalbergia sissoo</i>	Tree
6	Jhingan	<i>Lannea coromandelica</i>	Tree
7	Palash	<i>Butea monosperma</i>	Tree
8	Babool/ Kikar	<i>Vachellia nilotica</i>	Tree
9	Sohanjana	<i>Moringa concanensis/ Moringa oleifera</i>	Tree
10	Jand	<i>Prosopis cineraria</i>	Tree
11	Roheda	<i>Tecomella undulata</i>	Tree
12	Jamun	<i>Syzygium cumini</i>	Tree
13	Gular	<i>Ficus racemosa</i>	Tree
14	Papri (Indian Elm Tree)	<i>Holoptelea integrifolia</i>	Tree
15	Desi mango	<i>Magnifera indica</i>	Tree
16	Harar	<i>Terminalia chebula</i>	Tree
17	Mahua	<i>Madhuca longifolia</i>	Tree
18	Pilkhan (White Fig)	<i>Ficus virens</i>	Tree
19	Neem	<i>Azadirachta indica</i>	Tree
20	Peepal	<i>Ficus religiosa</i>	Tree
21	Bargad/Bohar (Indian Banyan)	<i>Ficus benghalensis</i>	Tree
22	Lasura	<i>Cordia myxa</i>	Tree
23	Amaltas	<i>Cassia fistula</i>	Tree
24	Khair/ Katha	<i>Acacia catechu/ Senegalia catechu</i>	Tree
25	Lasora / Goonda	<i>Cordia dichotoma/Cordia myxa</i>	Tree
26	Chamror	<i>Ehretia laevis</i>	Tree
27	Kharajal/Pilu/Meswak	<i>Salvadora oleoides</i>	Initial years Shrub & after Tree
28	Meethajal	<i>Salvadorapersica</i>	Initial years Shrub & after Tree



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29	Dhonk/Dhauk/Dhok	<i>Anogeissus pendula</i>	Tree
30	Gum Arabic	<i>Acacia Senegal/Senegaliasenegal</i>	Tree
31	Karanj	<i>Millettia pinnata</i>	Tree
32	Harshingar	<i>Nycanthes arbor-tristis</i>	Shrub
33	Karir	<i>Capperis decidua/ Capparis decidua</i>	Shrub
34	Vasaka	<i>Justicia adhatoda</i>	Shrub
35	Karonda	<i>Carissa carandas</i>	Shrub
36	Guggul	<i>Commiphora wightii</i>	Shrub
37	Nirgundi	<i>Vitex negundo</i>	Shrub
38	Sandalwood	<i>Santalum alb um</i>	Tree
39	Clove	<i>Syzygium aromaticum</i>	Tree
40	Cardamom	<i>Elettaria cardamomum</i>	Tree
41	Curry leaves	<i>Murraya koenigii</i>	Tree
42	Sadabahar	<i>Catharanthus roseus</i>	Shrub
43	Imli	<i>Tamarindus Indica</i>	Tree
44	Sukhchain	<i>Pongamia glabra</i>	Tree
45	Bael	<i>Aegle marmelos</i>	Tree
46	Shahtoot	<i>Morus alba</i>	Tree
47	Kachnar	<i>Bauhinia Variegata</i>	Tree
48	Shisham	<i>Indian rosewood</i>	Tree
49	Kadamb	<i>Neolamarckia cadamba</i>	Tree

- Virtual Tour of Guru Nanak Sacred Forest

<https://youtu.be/KrqbR-8FtEs>



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- **Relevance to National Mission/Priorities**

The creation of Guru Nanak Sacred Forest on the campus will contribute towards the National Mission and Environment Priorities of the Government in a big way by involving the youth and academia as evident from the various policies enlisted below:

1. The Government of India has time and again garnered people's attention and support towards the cause of the environment. Prime Minister Narendra Modi has launched numerous initiatives to safeguard the environment and steer India towards being a leader in restoration of Green Global Environment.
2. The United Nations Environment Programme (UNEP) named the Indian Prime Minister Narendra Modi and French President Emmanuel Macron as joint 'Champions of the Earth' in the policy leadership category.
3. A Green Skill Development Programme was launched in June 2017 by the Ministry of Environment, Forest, and Climate Change to focus on developing skills among youth in the environment and forest sector.
4. National Biodiversity Target 2020: The target of the Government under NBT (National Biodiversity) by 2020 is that the youth, right from their formative years, should be acquainted with the value of biodiversity and take positive steps to conserve and use it sustainably.
5. The Ministry of Environment, Forest and Climate Change will receive World Bank's Global Environment Facility Grant for India's Ecosystem Services Improvement Project (ESIP). As part of this, models will be developed and tested for improving forest quality through effective management of invasive alien species.
6. The Green India Mission (GIM) aims to improve forest quality over five million hectares and develop new forests over another five million hectares. The ESIP project in alignment with GIM will develop and implement innovative approaches and field-based activities for invasive species removal, replanting with native species and biological control. It will result in an enhanced national knowledge base to support the policy on containing the geographic spread of such invasive species.



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## C. Environment Committees in the College

The College has formed four committees, *Dharat Suhavi* Environment Society, Solid Waste Management Committee, Guru Nanak Sacred Forest and Balihari Kudrat Committee and Campus Beautification Committee which work towards raising environmental consciousness to achieve sustainability towards biodiversity and maintain a greener campus

### *Dharat Suhavi* Environment Society



The term *Dharat Suhavi* has been derived from *Gurbani*, which literally means 'Blessed Land'. The primary focus of the society is to work constantly towards creating awareness and sensitising the staff, students and community at large regarding sustainable environmental issues. The Society organises Environment Awareness Drives, holds Environment Education classes for the first year UG students, participates in projects of National Environment Awareness Campaigns and organises educational trips for students. The Environment Society takes part commemorating significant environment related days.

**Guru Nanak Sacred Forest and Balihari Kudrat Committee** diligently maintains the serene Guru Nanak Sacred Forest: A Mini Urban Forest with Native Species and the therapeutic Balihari Kudrat Herbal Garden. Their dedicated efforts ensure the preservation and flourishing of these natural sanctuaries, fostering environmental harmony and spiritual connection.

**Solid Waste Management Committee** functions towards proper waste disposal, segregation and management of waste generated in the college. The committee organises awareness and cleanliness drives, workshops and expert lectures, and installation of various waste disposal methods on Campus.

**Campus Beautification Committee** functions towards raising and maintaining plant diversity in the campus green areas largely in the Botanical Garden with special emphasis on giving practical demonstrations to science students. The Botanical Garden also includes a special spot for raising native herbal and medicinal plants which are environmentally beneficial as well as



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economical to maintain. This garden is used as a central nursery for raising horticultural plants which are used to beautify the campus. Under the *Saugaat*– Gift-a-Sapling Scheme, saplings raised in the central nursery are gifted to various dignitaries and guests who visit the college on different occasions to raise environmental awareness.

## D. Green Cover and Floral Diversity

Sri Guru Gobind Singh College has 10,281 sq ft of green cover with over 1200 varieties of plants, 1000 trees (approximately) and nearly 1000 other potted plants providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil and supporting biodiversity. The pedestrian path in the campus is lined with mango trees, which provide a green canopy cover over the path. Fruit trees are planted all across the College campus to attract birds and frugivorous mammals. The green cover other than the mini forest includes Botanical Garden, Herbal Garden, *Barah Maha* Garden of Biodiversity, *Bebe Nanaki* Garden of Serenity, garden adjacent to the Cafeteria, Sports Grounds and Hostel Garden.

## Faunal Diversity

The mini forest has improved the biodiversity index of the area by attracting many species of birds and insects, which are disappearing from the environment. The vast green cover and floral diversity of the College attracts huge faunal diversity comprising birds, insects, bees, wasps and squirrels etc. The students learn to appreciate their natural habitats and get acquainted with their interactions within their ecosystems. The Lotus and Lily pond has *Gambusia*, a larvicidal fish, to control the breeding of mosquitoes. The College has also adopted a few dogs and cats to create an environment of dignity and respect between humans and animals. The vast green cover of the College also provides a resting place and food source to help migratory birds coming to Chandigarh reach their destination.

## E. Waste Management

The College, in a constant bid to create a zero-waste campus, ensures that the campus waste is segregated at source and recycled or sold off to authorised vendors. The College continually tries to ensure the implementation of the 5R's: Refuse, Reduce, Reuse, Repurpose and Recycle.

- Colour-coded dustbins are placed all across the campus for segregation of wet and dry waste. Leaf litter is accumulated in the simple, bacterial and vermicomposting pits for



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biodegradation. The College has restricted single-use plastic and plastic bags on campus

- The introduction of separate bins for plastic bottles at SGGS College signifies a proactive step toward efficient waste management. By providing designated bins for plastic bottles, the college promotes segregation of waste, making it easier to recycle and reduce the environmental impact of plastic pollution.
- The College is connected with the Municipal Corporation drainage system for management of liquid waste. The wastewater generated from air conditioners is reused for watering the gardens
- The biomedical waste generated from the bacterial culture lab is autoclaved before being disposed of to avoid any contamination
- Incinerator has been installed in Girls Common Room to dispose of sanitary waste.
- The College has a designated e-waste collection store and an e-waste collection box for periodic disposal of electronic waste from the authorised vendor. Printer cartridges are refilled and reused.
- Bio-reactor for horticulture waste has been installed in the Botanical Garden to manage horticulture waste.
- A Milk Bag Recycling Bin has been installed in the area behind the canteen.

## F. Water and Energy Conservation

The College realises the importance of sustainable ecosystem as prescribed in numerous Government campaigns and commemorates important days pertaining to water and energy conservation such as *Jal Shakti Abhiyan*, *Akshay Urja Diwas* etc. The students as well as staff are also sensitised regularly for undertaking such practices through several awareness drives in and beyond campus as outreach programmes in adopted villages and other public places.

## G. Research and Development

Research and development is an important domain where the faculty and students of the College work diligently on the theme of environmental sustainability. Students from faculties of Science, Social Sciences and Languages undertake interdisciplinary research initiatives based on the native species grown in the mini forest. The faculty has presented and published several research papers along with noteworthy research projects.



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The College has been awarded an R & D Project by the Department of Environment, UT Administration, Chandigarh on 'Exploring the Potential of Carbon Neutrality in Chandigarh' aiming to make Chandigarh carbon free by 2030.

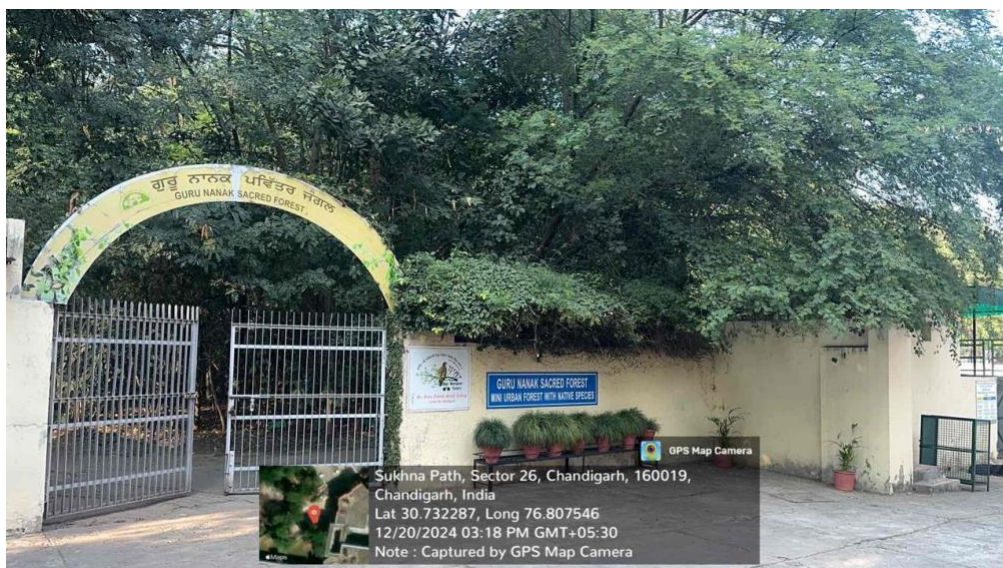
## H. Activities Conducted on Theme of Environmental Sustainability

Various activities are conducted throughout the session to promote environmental sustainability. The College took the opportunity and engaged a wider range of beneficiaries across the North Indian region by conducting various activities in blended mode, organised by Guru Nanak Sacred Forest Committee, *Dharat Suhavi* Environment Society, Campus Beautification Committee, NSS unit and various Departments of the College.

### □ EVIDENCE OF SUCCESS

#### A. Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees

The creation of the mini urban forest in the College has been of great significance towards documentation and preservation of genetic heritage. It involved a study and documentation of traditional ways of collecting and storing seeds of native species and helped to understand how tiny forest spaces can act as safe refuges for insects, birds and other fauna that are gradually disappearing from the ecosystem. It has successfully contributed towards promoting environment related policies of the government by mobilising people for this noble cause.



**Entrance of Guru Nanak Sacred Forest**



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Dense Green Cover in Mini Urban Forest

Observation and Research Centre, GNSF

Commemorating 550<sup>th</sup> Birth Anniversary of Guru Nanak Devji

## ਗੁਰੂ ਨਾਨਕ ਪ੍ਰੀਵਿੱਤਰ ਜੰਗਲ

### GURU NANAK SACRED FOREST

SRI GURU GOBIND SINGH COLLEGE, CHANDIGARH

PICTURE	COMMON NAME	BOTANICAL NAME	TYPE	PICTURE	COMMON NAME	BOTANICAL NAME	TYPE	PICTURE	COMMON NAME	BOTANICAL NAME	TYPE
	Seraul ਬਿਰਲ	<i>Bombax ceiba</i>	Canopy		Peadi ਪਾਦੀ	<i>Polioptelea integrifolia</i>	Tree		Chander ਚਾਂਦਰ	<i>Ehretia laevis</i>	Sub tree
	Baheda ਬਾਹੇਦਾ	<i>Terminalia bellerica</i>	Canopy		Desi Mango ਦੇਸੀ ਮਾਂਗੋ	<i>Mangifera indica</i>	Tree		Khuro Jai Pila ਖ਼ੁਰੋ ਜੈ ਪੀਲਾ	<i>Salvadora oleoides</i>	Sub tree
	Arjun ਅਰਜੁਨ	<i>Terminalia arjuna</i>	Canopy		Harad ਹਾਰਦ	<i>Terminalia chebula</i>	Tree		Mashta Jai ਮਸ਼ਟਾ ਜੈ	<i>Salvadora persica</i>	Sub tree
	Phulal ਫੁਲਾਲੀ	<i>Acacia modesta</i>	Tree		Maha ਮਾਹਾ	<i>Madhava longifolia</i>	Tree		Kari ਕਾਰੀ	<i>Capparis decidua</i>	Sub tree
	Sheesham ਸ਼ੀਸ਼ਮ	<i>Dalbergia sissoo</i>	Tree		Pilkhan ਪਿਲਖਨ	<i>Ficus virens</i>	Tree		Dhank ਧਾਂਕ	<i>Anageisus pendula</i>	Sub tree
	Jhingam ਜਿੰਗਮ	<i>Lannea coromandelica</i>	Tree		Neem ਨੀਮ	<i>Azadirachta indica</i>	Tree		Gum Arabic ਗੁਮ ਅਰਬਿਕ	<i>Acacia senegal</i>	Sub tree
	Palash ਪਾਲਾਸ਼	<i>Butea monosperma</i>	Tree		Peepal ਪੀਪਲ	<i>Ficus religiosa</i>	Tree		Karanj ਕਰਾਂਜ	<i>Milletia Pinnata</i>	Sub tree
	Kikar ਕਿਕਾਰ	<i>Vachellia nilotica</i>	Tree		Bargad/Bahar ਬਰਗਦ/ਬਾਹਰ	<i>Ficus benghalensis</i>	Tree		Vaska ਵਾਸਕਾ	<i>Justicia adhatoda</i>	Shrub
	Sahanjana ਸ਼ਾਹਜਾਨਾ	<i>Moringa concanensis</i>	Tree		Lasuro ਲਾਸੂਰਾ	<i>Coriaria myna</i>	Tree		Karenda ਕਰੇਂਦਾ	<i>Carissa carandas</i>	Shrub
	Jand ਜਾਂਦ	<i>Prosopis cineraria</i>	Tree		Amolhos ਅਮੋਲਹੋਸ	<i>Cassia fistula</i>	Sub tree		Guggul ਗੁਗੁਲ	<i>Commiphora wightii</i>	Shrub
	Beheda ਬੇਹੇਦਾ	<i>Tecomella undulata</i>	Tree		Khqir/Katha ਖ਼ਕੀਰ/ਕਾਠਾ	<i>Acacia catechu</i>	Sub tree		Nirgundi ਨੀਰਗੁੰਦੀ	<i>Flax negundo</i>	Shrub
	Jamun ਜਾਮੁਨ	<i>Syzygium cumini</i>	Tree		Harshingar/Naam ਹਾਰਸ਼ਿੰਗਰ/ਨਾਮ	<i>Ayanthos arbor-tritris</i>	Sub tree	550 Saplings with 37 Species of Native Trees Area: 180 Sq Metres Density: 3.6 Saplings Per Sq Metre Established : April 03, 2019			
	Gular ਗੁਲਾਰ	<i>Ficus racemosa</i>	Tree		Lasora / Goonda ਲਾਸਰਾ / ਗੋਂਦਾ	<i>Carlia dia botoma</i>	Sub tree				

Board inside Guru Nanak Sacred Forest displaying common names, botanical names and pictures of species of native trees planted in the mini forest



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Aesthetic Pathway developed around flourishing Mini Forest

A Heritage Wall was created in the Guru Nanak Sacred Forest with quotes on ecology taken from the Gurbani.





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- **Plantation of Native Trees**

New native species *Neolamarckiacadamba*- Kadamb, *Shahtoot*, *Kachnar* and *Kanak Champa* was introduced in the Forest. The extracts formulated from the tree's bark, leaves, and other parts is said to cure many diseases such as diabetes, cardiovascular disorders, cancer and liver damage.

### **Collaboration with Government Agencies**

The College collaborated with the following Government offices for assistance in further development and expansion of the mini forest at various stages:

Punjab Biodiversity Board (PBB); ENVIS Centre; Department of Environment; Punjab State Council for Science & Technology; CREST Chandigarh Renewal Energy Science & Technology Promotion Society; Forest & Wildlife Preservation Department; Department of Soil & Water Conservation; Department of Agriculture and Farmer Welfare, Dera Bassi, SAS Nagar; Punjab Mandi Board; Central Ground Water Board, Chandigarh; Punjab State Rural Development Board.

### **B. Green Cover and Floral Diversity**

The extensive green cover of the College has contributed towards improving air quality, climate amelioration, conserving water, preserving soil and sustainable biodiversity. Different areas are covered with various types of plants, trees, shrubs, climbers etc. The pedestrian path in the campus is lined with mango trees, which provide a green canopy cover over the path. Fruit trees are planted all across the College campus to attract birds and other frugivorous insects etc.

- The College has following Green Areas in addition to the mini urban forest:
  - i. Botanical Garden
  - ii. Herbal Garden
  - iii. *Barah Maha* Garden of Biodiversity
  - iv. *Bebe Nanaki* Garden of Serenity
  - v. Garden Adjacent to Cafeteria
  - vi. Sports Grounds
  - vii. Hostel Garden



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viii. Pedestrian Friendly Pathways with Green Cover

## i. Botanical Garden

The Campus Beautification Committee maintains the Botanical Garden and 5 lawns which add to the greenery and rich biodiversity in the campus. A plethora of seasonal and perennial flowering plants adorn the College. In addition to the annuals in the garden beds, approximately 500 seasonal flower pots were cultivated and nurtured in the central nursery inside the botanical garden. The garden presents a unique blend of beauty and culture, where each tree holds a different meaning to individual viewers. A sprinkle irrigation system has also been installed to provide ideal growth to plants and reduce the consumption of water.



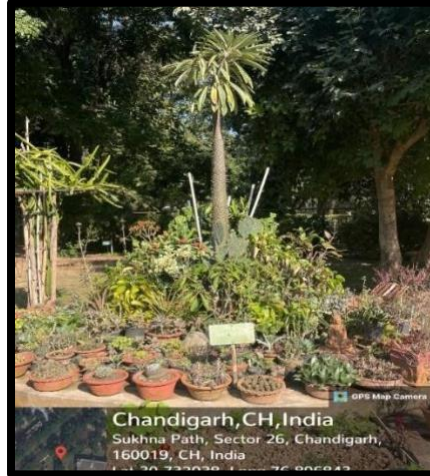
Xerophyte and Succulent Section: A Special central area of the Botanical Garden with direct sunlight has been dedicated for cultivation of Xerophyte and Succulents. Various species of *Opuntioy Ferocactus* and other succulents like *Agaves* are growing here. A special attraction of this area is the vine-like cactus plant of dragon fruit *Hylocereus undatu*



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**Palmatum:** A special area has been allocated for growing palms and cypresses. Currently 7 species of palms and 2 species of cypresses are growing in the palmatum.

**Nursery and Seed Bank:** This garden is used as a nursery for raising a plethora of horticultural plants. The saplings are later planted in various parts of the college. Some of these plants are gifted under the “Gift-a-Sapling” scheme to various dignitaries who visit the college on different occasions.



**Composting Section:** Vermicomposting and Bacterial composting Section has been created to supply nutrients and growth enhancing hormones plants. The compost is also useful to improve the soil structure leading to increased water and nutrient holding capacity.



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A Solar Green House and Fern House is constructed in the College with the dimension of 10x6 m<sup>2</sup> with the GI pipe and green shade net. It is used to shield green plants from extreme environmental conditions and prepare seedlings. Micro-sprinklers are used to cultivate ferns, supply nutrients and enhance their growth.



## ii. Herbal Garden

Herbal Garden has been set up in the Botanical Garden of the College established in 2016 under the aegis of Department of Environment, Chandigarh. The traditional and aromatic herbs like Tulsi, Mint, Coriander, Thyme, Rosemary, Oregano, Chives and Garlic, to name a few are flourishing. All these plants are important therapeutically, environmentally and educationally. Herbal Garden has a collection of approximately 100 species of medicinal plants like Mint, Coriander, Peppermint, Tulsi, Basil, Thyme, Oregano, Fenugreek, Cardamom, Clove, Bayleaf, Kewda, Brahmi, Ashwagandha, Vacha, Lemon, Lemongrass, Calotropis, Fennel, Chives, Turmeric, Ginger etc. which aid in teaching of Ethnobotany and in research by students of Botany, Biotechnology and Chemistry. *Morus alba* (Shahtoot) was added to the Garden on



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**Sector-26, Chandigarh-160019. (0172) 2792754, Telefax: (0172)2790312**

March 21, 2023 to commemorate World Forest Day, 2023. For the above said purpose, these plants are cultured and maintained annually at their designated areas. The produce of plants like Cherry tomatoes, Lemons, Papaya, Plum, Guava, Grapes, Peaches, Mango etc. on-campus are collected and distributed amongst students and the under-privileged. They also attract a rich diversity of fauna in the campus. Name plates with Botanical name, common name and uses are displayed thus raising awareness and consciousness about nature among students.



Flowering plants: Dahlia, Chrysanthemum, Zinnia, Poppy, Dianthus, Petunia, Phlox, Marigold etc. are among the numerous flowering plants that have fetched many laurels to the College in various flower shows.



Fruit Plants: The College has a wide variety of indigenous and exotic fruit trees such as mango, jackfruit, amla, pear, plum, peach, jamun, lemon, mausami, grapevine, dragon fruit. To commemorate International Day of Forests, as many as 20 different species of fruit trees were planted.



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Grapes



Guava



### iii. *Barah Maha* Garden of Biodiversity

The concept of *Barah Maha* Garden of Biodiversity involves study and plantation of flowering plants which will attract birds, butterflies and honey bees, enriching the faunal diversity and making the garden pollinator-friendly. The Garden of Biodiversity is aptly named from our rich heritage. *Barah Maha*, meaning ‘Twelve Months’, describes the months of the Indian Lunar Calendar and it is in the form of Calendar poetry, a collection of hymn-verses composed by Guru Nanak Dev ji.



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#### iv. *Bebe Nanaki Garden of Serenity*

The Garden of Serenity adds to the environment sustainability and aesthetics of the campus. This garden is a reflection of the spiritual radiance of Bebe Nanaki, the elder sister of Guru Nanak Dev Ji, after whom it is named.





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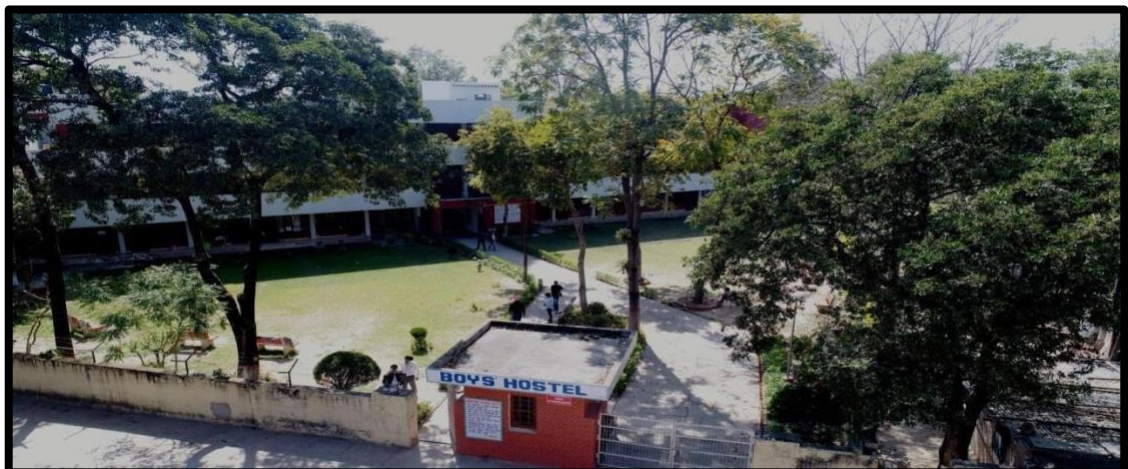
## 7. Garden Adjacent to Cafeteria



## i. Sports Grounds



## ii. Hostel Garden Aerial View





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### iii. Pedestrian Friendly Pathways with Green Cover



## C. Faunal Diversity

In addition to the floral diversity, the College also houses a rich faunal diversity.

BAAZ: Bird Watcher's Society is a novel initiative to study, observe and archive information on varieties of birds, especially those particular to the campus and region. The Society seeks to encourage the conservation of birds in their natural environment. This will cultivate the instinct of wildlife conservation and environmental leadership in the youth. The students are actively participating in collecting and cataloging the E-Bird Data.



PAWS Humane Society for Animal Assisted Therapy is a unique, first of its kind initiative which aims to sensitise students about animal welfare, facilitate an environment of dignity and respect between humans and animals and to promote compassion and empathy for all living beings.



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## OUR PAWS



## INTER COLLEGE POSTER MAKING COMPETITION

From time to time the Paws Humane Society organises various events to sensitise students and faculty. Sri Guru Gobind Singh College, Sector-26, Chandigarh, in collaboration with Punjab Biodiversity Board under aegis of National Biodiversity Authority, India organised an Inter College Poster Making Competition to commemorate International Day of Biological Diversity



Mr Gurharminder Singh, Principal Scientific Officer, PSCST, was the Chief Guest for the event, S Karandeep Singh Cheema, Joint Secretary, Sikh Educational Society, Guest of Honour along with Dr Navjot Kaur, Principal, SGGS College, Chandigarh.

## PAWS REFLECT





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Sri Guru Gobind Singh College, Sector-26, Chandigarh, in collaboration with Punjab Biodiversity Board under aegis of National Biodiversity Authority, India organised an Inter College Caption Writing Contest 'Paws Reflect' to commemorate International Day of Biological Diversity.



Members of Paws Humane Society along with Paws

- **Bird Diversity**

The E-bird data collected from the campus is evidence of increasing bird diversity on the campus it includes Mynah, Sparrow, Parrot, Pigeon, Shrike, Dove, White-checked Bulbul, Himalayan Bulbul, Budgerigar, Red Turtle Dove, Warbler, Spotted Munia, Ashi Prinia, Hoopoe, Barbet, Indian Robin, Baaz, kingfisher, Koel and many other birds even Chandigarh State bird Indian Grey Hornbill has also been spotted in mini forest. Bird feeders are placed in different parts of the College in order to provide a secure source of food and water during summer season.

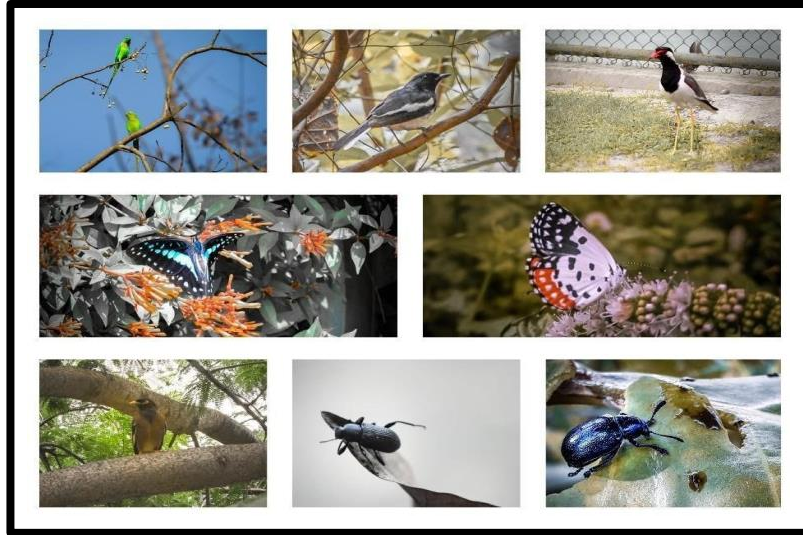
- Gambusia fish are there in the lotus and lily ponds to control the breeding of mosquitoes. Other than that, the pond also has dragonflies, frogs, snails. In summer, the pond provides water for pollinators like bees and wasps. The College has a steady population of squirrels. Insects belonging to 7 common orders (Odonata, Diptera, Hymenoptera, Hemiptera, Isoptera, Coleoptera and Lepidoptera) are found in the campus. Many nests of *Polistes*(wasps) are seen in the campus.



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## D. Waste Management

The College provides a safe and healthy environment for students and staff by adhering to the guidelines of Solid Waste Management 2016 issued by Government of India, Ministry of Environment, Forest and Climate Change, New Delhi in a phased manner. The College, in a constant bid to create a zero-waste campus, ensures that the campus waste is segregated at source and recycled or sold off to authorised vendors. The College constituted the Swachhata Committee in 2018, which consisted of teaching, non-teaching, cleaning staff and the Student Council with the aim to follow the 5R's: Refuse, Reduce, Reuse, Repurpose and Recycle.

- **Solid Waste Management**

- i. Solid waste is segregated into wet (biodegradable) and dry (non-biodegradable) waste. For smooth and efficient waste management, marked and colour-coded dustbins are placed across the campus. These are sent for disposal and recycled



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as per standard procedures by the authorised vendors.



- ii. **Wet waste** generated in the College Mess and Canteen is collected by local pig farmers on alternate days.
- iii. **Management of Leaf litter:** The leaf litter generated in the campus is composted in a composting unit comprising bacterial, vermicomposting, simple composting pits and a vermiwash unit. These units were made operational on the campus which also provided hands-on training to students.
- iv. **Waste paper** generated during the house examinations is sold periodically to the paper-recycling vendors as per University guidelines.
- v. Broken furniture, sanitary items, pipes and other construction and demolition-related wastes are given to the authorised vendor for proper disposal.
- vi. Laboratory machinery and equipment which becomes obsolete, unusable or beyond economical repair is written-off and given to government-authorised vendors.



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vii. An incinerator has been installed to dispose of sanitary waste.



viii. Milk bag recycling bin has been installed in the college. MOU has been signed with the Milk Bag Recycling Team. A recycling vendor recycles the milk bags every month.



ix. A Bio Reactor has been installed on campus to effectively manage horticulture waste.





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- **E-Waste**

An E-waste collection bin is installed in the E-waste store for the proper disposal of electronic products that are unwanted, not working, and nearing or at the end of their useful life.



- **Biomedical Waste**

The biomedical waste generated from bacterial culture is autoclaved at 121°C under 15 lbs pressure for 30 minutes before being disposed of to contain the spread of unwanted bacterial cysts and spores.



- **Initiatives for Reduce, Reuse, Recycle**

- i. **Ban on Single-Use Plastic in Campus:** Single-use plastic, including plastic



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cold drink bottles less than 1 litre, is banned in the College premises. The students and staff are encouraged to adopt use eco-friendly products for reducing the use of plastic. The use of stainless steel utensils is promoted in canteen and hostel mess. During celebration of Founder's Day and other religious occasions eco-friendly green *pattals* are used to serve food in *Langar*.



ii. International Plastic Free Day is celebrated by NSS by launching campaigns on 'No plastic Use' and 'Reuse Before Recycle'.

<https://www.facebook.com/watch/?v=581518552761118>

<https://www.facebook.com/NSSSGGS26OFFICIAL/posts/2470469529910018>

iii. **Promoting Paper-Less Initiatives**

- a) Office automation has largely reduced the use of paper for administrative purposes including maintenance of records, leave application etc.
- b) Internal notices and communications regarding admissions, examination, fees etc. are done through email and broadcasting messages.
- c) The library is partially automated with bar-coded books. Library membership smart cards are issued to students to get access to these books. The College library has e-library facilities with INFLIBNET, N-List and DELNET.
- d) Most of the storage is in digitised form in the library, laboratories and various departments.
- e) Prints and photocopies are taken on both sides of the pages to avoid



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excess paper usage.

- f) The single side printed papers are reused for internal office work.

## E. Water and Energy Conservation

- Water Conservation and Rainwater Harvesting Initiatives

- Rainwater Harvesting Unit has been installed to reuse the rainwater collected from the rooftop of Gurudwara Sahib.
- Water storage tanks have been installed for reuse of water in Botanical Garden. Rainwater from rooftop of boys hostel is stored in the water tank of Botanical garden to water the plants



- Plantation of drought-resistant plants such as *Desi Beriyan (Zizyphus sp.)*, *Jand (Prosopis)*, *Bougainvillea*, *Karir (Capparis)*, *Amaltas (Cassia fistula)*, *Aloe vera*, *Sedum*, *Sansevieria* (Mother-in-law's Tongue), *Euphorbia*, *Kalanchoe*, *Agave*, etc. is encouraged.
- Treated tertiary water is used for watering the lawns, herbal garden and playgrounds. This helps in preventing the wastage of potable fresh water.
- Grey water generated from washrooms is connected to the Municipal Corporation Sewage system with a well maintained drainage system of the College.
- To overcome water shortage, watering cans are used for irrigation instead of water pipes
- The water dripping from the air conditioners of the administrative office is used to water the plants in front of the Administrative office.



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viii. Overflowing of rooftop tanks is avoided with the floaters.

## ix. ENERGY MANAGEMENT

i. A Solar Power Plant with a capacity of 100 kw is installed on the roof of Boys' Hostel and College buildings.



Solar Panels on the rooftop of Boys Hostel of the College



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- ii. Solar lights are also installed in the College premises



Solar Light in Boys Hostel



Solar Light in Bebe Nanaki Garden

- iii. Committed efforts are being made by the College to reduce the carbon footprint by installing power efficient electricity devices such as 5-star energy-efficient AC units, LED lights, UPS connected systems.
- iv. Audit of energy efficient heating, cooling, lighting and water systems in the campus has been conducted.

## F. Research and Development

- An Observation and Research Centre has been created in the Guru Nanak Sacred Forest: A Mini Urban Forest with Native Trees, to involve students and faculty of various streams. Various observations and studies are underway on growth of the mini forest under different conditions characterised as follows:
  - i. Plants have been grouped into different layers – shrub, sub tree, tree and canopy – in each sq m. Such a multi-layered dense green forest will eventually become maintenance-free due to the *Miyawaki* technique used during plantation.
  - ii. 100 % organic, zero pesticides
  - iii. Natural biodiversity habitat for pollinators
  - iv. More CO<sub>2</sub> absorption and sequestration



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- v. SPM reduction and ground water recharge
- vi. Soil conservation
- vii. Regeneration of ecosystem



View of Observation and Research Centre in the mini forest

Students of the Department of Botany and Zoology are involved in the study of restoration of native plant habitat vital to preserving biodiversity since it forms the ecological basis upon which life depends. The mini forest has improved the biodiversity index of the area by attracting many species of birds and insects, which are disappearing from the environment. Students of Chemistry and Biotechnology are involved in projects for *in vitro* antioxidant potential and phytochemical screening of the native species of trees. In a way, this forest has provided a platform for inter-disciplinary research. Students of History, Literature and Religious Studies are involved in studying and preserving the historical, cultural and religious significance of various species of trees growing in the mini forest. Many noteworthy research publications, presentations and projects pertaining to environmental issues have been undertaken by the faculty.

- **Research undertaken by Faculty on issues pertaining to Environment**

1. Dr Kawalpreet Kaur authored a research article 'Role of Spirulina in Structural Remodeling of Synapse in Telencephalon of Chronic Unpredictable Stress Model of Zebrafish' in Annals of Neurosciences(Online first) ISSN: 0972-7531.
2. Dr IPS Sidhu presented 02 papers: 'Ecological Consequences of Plastics: A



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Threat' at Panjab University CDC sponsored Regional Level Seminar on Present Status,

Distribution and Ecology of Wildlife in Punjab organised by AS College, Khanna, Feb 13, 2023 and 'Conservation of Rain Water in Rural Areas of Punjab' at one-day National Conference on Methods and Challenges to Harvest Water for Sustainable Development organised by BAM Khalsa College, Garshankar, Hoshiarpur, Punjab, Feb 15, 2023.

## G. Activities Conducted on Theme of Environmental Sustainability

During the session 2023-24, the College has successfully engaged students through various activities and has sensitised them about the significance of conserving the environment and the ethics pertaining to prudent use of natural resources.

- **Tree Plantation Drives**

The College conducted various tree plantation drives under *Dharat Suhavi* Environment Society, Campus Beautification and NSS Unit.

### **Tree Plantation commemorating World Forest Day, 2024**

**Date: March 21, 2024**

**Organised by: Guru Nanak Sacred Forest Committee, Dharat Suhavi Environment Society, and SGGSC NCC unit (Army and Navy)**

The college organised a Nature Trail to Nepli Forest, Chandigarh Administration to commemorate World Forest Day, 2024. The expedition, designed to celebrate biodiversity and instill environmental awareness, provided participants with a rich educational experience. Students accompanied by Faculty Members strolled along the scenic trail, through the beautiful forest area sighting many varieties of birds, animals, trees, shrubs, herbs, grasses and climbers. The nature wildlife Trek helped students delve into the intricate tapestry of biodiversity and they learnt about the importance of conserving forests to maintain ecological balance.

### **World Sikh Environment Day, 2024**

**March 13, 2024**

**Organising Committees: Guru Nanak Sacred Forest Committee, Dharat Suhavi**



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## **Environment Society, Gurmat Vichaar Sabha**

The celebrations began with recitation of environmentally themed Shabad Gayan from Sri Guru Granth Sahib Ji by the students of the College. This was followed by Tree Plantation by Management, Faculty and students along with renowned Academicians at Guru Nanak Sacred Forest: A Mini Urban Forest on Campus with Native Species and Balihari Kudrat Healing Herbs Garden. This echoed the timeless Sikh ethos of reverence for nature and the importance of its preservation for future generations. The special feature of the event were the Eco Friendly stalls showcasing innovative solutions for sustainable living set up by SGGSC Self Help Groups. These included a Manure Mart featuring organic offerings from the Botanical Garden of the College, Eco-Friendly Pens and Pencils crafted from recycled materials by dedicated Eco Scouts, and a selection of Organic Herbs promoting holistic wellness.

## **Mega Plantation Drive on 'Azadi ka Amrit Mahotsav'**

**Aug 9, 2023**

### **Organising Committees:-NSS unit**

NSS Units of SGGC College started the "Meri Maati Mera Desh" Campaign from July 31 to Aug 15, 2023 to pay tribute to our "Motherland" and Veers' on the occasion of celebration of "Azadi Ka Amrit Mahotsav" on 75th Indian Independence. The celebrations included a "Mega Plantation Drive" and "Panch Pran" pledge (with a fist of soil) in villages "Chaumajra and Tasoli" on Aug 9, 2023.

## **World Sparrow Day**

**March 20, 2024**

### **Organising Committees-Dharat Suhavi Environment Society, Baaz Bird Watchers' Society, Guru Nanak Sacred Forest Committee**

SGGSC- Eco Scouts installed Bird Feeders and Water Bowls for birds in Guru Nanak Sacred Forest: A Mini Urban Forest with Native Species and Barah Maha Garden of Biodiversity, established on the Campus. This initiative aimed to promote awareness about the declining global population of sparrows and to support their conservation and protection. By furnishing essential resources for avian inhabitants, the College aimed to cultivate biodiversity and ecological equilibrium while fostering a deeper appreciation for nature.

## **Tree Plantation drive on Annual Prize Distribution Ceremony**

**April 25, 2024**

Tree plantation was carried out in Guru Nanak Sacred Forest: A Mini-Urban Forest on



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Campus with Native Species by the Chief Guest, the Principal alongwith faculty members on Chief Guest Prof Karamjeet Singh, Vice Chancellor, Jagat Guru Nanak Dev Punjab State Open University, Patiala presented Awards and Certificates to the students of 2020-21, 2021-22 and 2022-23 and 2023-24 batches.

Kamaljeet Kaur (BSc III Non Med) was adjudged All Round Best Student 2023-24 and was awarded Col Mahbub Singh Running Trophy and a Cash Prize of Rs 25000/-. Manpreet Kaur (BSc III Non Med) was awarded Prof Jagir Singh Dhama Award for Meritorious Student of Basic Sciences 2024. Himanshu (BBA III) was awarded Prof Satya Pal Mahajan Award for Meritorious Students of Commerce 2024. Sehajdeep Kaur (BSc III Med) was awarded Prof Brijinder Dargan Memorial Award for Meritorious Student of Science 2024. Shivang Dutta (MA Eco) was awarded S Amar Singh Mago Award for Best Student of MA Economics 2024. 28 students were awarded Roll of Honour and 117 students were awarded College Colour for excellence in various fields like academics, sports, cultural activities, NSS, NCC, etc. Certificates of Appreciation were awarded to eligible students for their outstanding achievements as volunteers of various clubs and societies such as Eco Scouts, Rotaractor, Mehramat Blood donors Society, Gurmat Vichaar Sabha, and Electoral Literacy Club etc. Registrar Academics, Dr Amit Joshi gave the Vote of Thanks.

## **Plantation drive on occasion of Sangrand**

**AUGUST 17,2023**

**Organising Committees:**

**Gurmat Vichaar Sabha Department of Botany**

The college facilitated the landscaping of Barah Maha Garden of the College. S Karandeep Singh Cheema, Joint Secretary SES, and Principal, Dr Navjot Kaur inaugurated the landscaping and plantation drive promoting a green Campus, highlighting the commitment of the College to its Best Practice of Environmental Sustainability. The event also celebrated the auspicious occasion of Sangrand of Bhadho month with a soul-soothing Shabad Kirtan recited by the students.

### ● **SUSTAINABLE INITIATIVES PROMOTED BY SGGSC-26**

- Under the Eco-green Project '**Saugaat -Gift-a-Sapling**' started in 2019- The college organised an interactive Parent-Teacher Meeting on March 30,2024 with the aim to foster better communication and collaboration between parents and



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teachers to discuss students' performance and devise ways to enrich their learning experience. In consonance with the Best Practice of Environmental Sustainability and under the Eco-green Project Saugaat: Gift a Sapling Scheme, all parents were gifted saplings grown in the Botanical Garden of the College. The Principal stressed the commitment of the College towards facilitating an environment conducive to both academic learning and environmental sustainability.

- **Zero Litter Hour and Litter Free Campus Campaign:.**

The college initiated an eco-friendly practice of Zero Litter Hour on Sept 04, 2023 to be observed everyday. The initiative, commemorating Swacchta Pakhwada 2023, aimed to keep the College campus litter-free. Principal, Dr Navjot Kaur inaugurated the cleanliness drive along with the Faculty and students who enthusiastically participated in the cleaning of the Campus. Plastic garbage was collected from every nook and corner of the College premises by the Eco-Scouts. Emphasis was laid on proper collection and segregation of waste, and the students were made aware about the imperative need to maintain cleanliness in the Campus and their general surroundings. The Principal reiterated the commitment of the College towards upholding its best practice of Environmental Sustainability. She appreciated the efforts of Dharat Suhavi Environment Society and MGNCRE-SAP of the College for organising the event.

- On September 22,2023 the Students Council elected for 2023-24 celebrated their win by organising a cake cutting ceremony followed by a DJ party for the students. They also planted a sapling in the Guru Nanak Sacred Forest: a Mini-Urban Forest on Campus, upholding the Best Practice of Environmental Sustainability promoted by the College.

- **LAURELS FOR SRI GURU GOBIND SINGH COLLEGE AT 52nd CHANDIGARH ROSE FESTIVAL FEB 23-25, 2024-**

The college was awarded FIRST PRIZE BEST COLLEGE CAMPUS MAINTAINED. FIRST PRIZE FLOWERS GROWN IN POTS and CUT FLOWERS. Principal Dr Navjot Kaur, Vice Principal Mr Kulwinder Singh, Dr Jasveer Kaur Brar and Dr



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Kawalpreet Kaur, Deptt of Botany received the Awards from Ms Anindita Mitra, Commissioner Municipal Corporation Chandigarh and Mr Kuldeep Kumar, Mayor of Chandigarh Municipal Corporation at the Prize Distribution Ceremony in the Rose Garden of Chandigarh. The occasion was also graced by Mr Rajeev Verma, UT Adviser and Mr Vijay Zade, Finance Secretary Chandigarh Administration.

- The college won the third position in Inter- College SDG Challengers Trophy 2024 held at Dev Samaj College of Education, Chandigarh on January 27,2024, celebrating the 127th Birth Anniversary of Netaji Subhash Chandra Bose and National Day of Girl Child , sponsored by NGO Yuvsatta (youth for peace), Chandigarh State AIDS Control Society and Department of Environment, Chandigarh Administration. A team of SGGSC Eco Scouts including Sapna (MSc I Physics), Vanshika (BCom II) and

Vanshika Kalra (BCom II) won third prize from among 400 participants belonging to 32 colleges and schools of the City. The team showcased sustainable practices adopted by the College promoting the Best Practice of Environmental Sustainability.

- On NOVEMBER 8,2023, the college celebrated **Green Diwali** to promote Cracker Free Diwali. This eco- friendly initiative of the College was organised in collaboration with Department of Environment, Chandigarh Administration. The celebrations began with an Oath taking Ceremony, where students pledged to not use crackers and an Anti Cracker Rally generating awareness about the benefits of cracker free Diwali. The highlight of the event were the Stalls put up by SGGSC Student Self Help Groups and Small-Scale Women Entrepreneurs. This included a stall for Diwali Decor by Institute of Blind, Sector 26, Chandigarh. The stall displaying beautiful and decorative candles, handmade by visually impaired students found many takers amongst the faculty and the students. A stall of Herbal saplings showcasing a variety of saplings nurtured by the students in Botanical Garden of the College; **stall of Ecofriendly pens and**



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**pencils made by Ecoscouts and Millet meals** prepared by the students.

Rimjhim Self-Help group displayed waste flower Dhupbatti made from sacred temple flowers, and Sarwati self-help group presented Fragrance Candles created from waste flowers, both by Women Entrepreneurs. These aimed to promote entrepreneurship amongst the students and cultivate a culture of innovation.

Various competitions such as Poster Making and Slogan Writing Competition, Poem and Essay Competition were also organised as a part of the celebrations on the theme, Green Diwali: Swachh Diwali. Cash Prizes were given to the winners. The Dharat Suhavi Environment Society, SGGSC- Rotaract Club, SGGSC-Institution Innovation Council, SGGSC-Equal Opportunity Cell, NSS Units and MGNCRE-SAP of the College collaborated to organize the event.

- On DECEMBER 23,2023 SGGSC 26 was recognised as District Eco-SDG Challenger and Champion 2023 with outstanding performance, Grade ‘S’, for Chandigarh district by the APEX SDG, a consortium for the District Eco- SDG Challengers 2023,registered under the Ministry of Micro, Small and Medium Enterprises (MSME). The honour was conferred for successfully demonstrating its support to Sustainable Development Goals and Social Responsibility by conducting and showcasing several Eco-SDG and Skill Development activities by Institution Innovation Council, Dharat Suhavi Environmental Society, Unnat Bharat Abhiyan and NSS Unit of the College.

APEZ SDG, a facilitator for implementing SDGs in Higher Educational Institutes, Industries, Corporates, and Enterprises appreciated the initiatives and activities undertaken by the College to promote and contribute to national development.

- **SGGSC Initiative to promote zero food wastage:** The College has instituted a comprehensive Zero Food Wastage program encompassing hostel messes, college cafeterias, and diverse on- campus events. This initiative seeks to mitigate food wastage through strategic meal planning, awareness initiatives, and potential redistribution programs. On Founder's Day, the Eco scouts notably engaged in a praiseworthy endeavor by showcasing placards that promoted zero food wastage.



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- Sri Guru Gobind Singh College organised Panjab University Zonal Youth and Heritage Festival 2023, on the theme ‘One Earth-One Family-One Future’, underlining the interconnectedness of humanity and our collective responsibility to forge a more sustainable and harmonious future for all.

The unique feature of the festival included ‘Zero Litter Campus’ and ‘Less Plastic, More Green’ in collaboration with Municipal Corporation, Chandigarh Administration showing the commitment of the College to Swachhata Hi Seva 2023 Campaign and a sustainable future. On day 2, the Chief Guest, Mr Hardeep Singh Puri, Union Minister, Housing and Urban Affairs & Petroleum and Natural Gas. Mr Puri appreciated the Environmental friendly initiatives of ‘Zero Litter Campus’ and ‘Less Plastic, More Green’, among others taken by the College towards a Sustainable Future and highlighted the significance of the spirit of unity, shared responsibility towards a Swachh Bharat. He interacted with the students and also planted a sapling of Palash in the Guru Nanak Sacred Forest: a Mini Urban Forest on Campus.

Entrepreneurial Stalls- including a Phulkari and Heritage item stall promoting Rural Women Entrepreneurship by Mehar Baba Charitable Trust, Bassi Pathana, Fatehgarh Sahib; a Manure Mart – an Eco-friendly endeavour of Vermicompost and Millet Meals- an initiative of the College Students Self-Help Group fostering Student Entrepreneurship; eco-friendly pens and pencils stall promoting student’s art and creativity and stalls of various food items added to the magnetism of the event.

- On JANUARY 7,2024 the college inaugurated a 7 Day Special NSS Camp based on the theme ‘Swachh Bharat Abhiyan and Health & Hygiene. A lot of events were held that were in consonance with the Best Practice of Environment Sustainability

**Day 1** - In the Inaugural Ceremony, Mr Nautiyal and the Principal planted Dhak, State Flower of Chandigarh in Guru Nanak Sacred Forest: A mini Urban Forest on Campus with native species.

**Day 2** – In the evening session members of IIC Institution Innovation Council of the



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College enlightened the Cadets about IIC focusing on the importance of innovation and entrepreneurship to mark the celebration of Innovation Day. They talked about POKHRAN where the first nuclear bomb test was conducted and its significance. The day concluded with National Youth Day celebrations, where NSS volunteers shared their ideas for advancement of India for Viksit Bharat@2047, a Government of India initiative to make India a developed nation by 2047. The College with its Best Practices and through the activities of various Cells and Clubs is promoting the vision and its various aspects of development, including, social progress, environmental sustainability, and good governance.

**Day 3** - The evening session included an Energy Sensitisation Drive in consonance with the Best Practice of Environmental Sustainability promoted by the College. Students were briefed about the initiative taken by SGGC College to curb energy wastage. The process of semiconductor technology and reduction in greenhouse gases was explained to the students by showing them the Solar panels in the College and how they help in energy conservation and a cleaner environment. The event also commemorates Energy Conservation Day 2024. The day concluded with a Cleanliness Drive. Volunteers conducted an E-waste and plastic waste collection drive on the Campus thereby promoting the Swachh Bharat Abhiyan and giving impetus to Clean India Mission.

**Day 4** - The students, attended an Expert Lecture on 'Winged Wonders: Nature's Blueprint for Resilience and Sustainability', delivered by Mrs Rima Dhillon, Secretary, Chandigarh Bird Club. She discussed various types of migration focussing on the birds that migrate to Chandigarh. She elaborated on the process of migration and how birds use magnetic field of earth, mountains, hills, rivers, free radicals, and day-night time to navigate. This was followed by a Nature Trail to Guru Nanak Sacred Forest- A Mini Urban Forest on Campus, where the students spotted many migratory birds such as Wagtail -migratory bird from Siberia, Parakeet, Jungle babbler, White throated Fantail and Black Eagle. This was organised in association with the SGGC-BAAZ Bird Watchers' Society.

**Day 5** -The morning session also included a Workshop on Sustaining Renewable Power: Advancing Strategies for Energy Conservation conducted by Mr Rohit Singh, Chandigarh Renewable Energy and Science & Technology. He began by appreciating the role of SGGC College in promoting Solar Energy and for being awarded the Solar Ambassador Award



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among all Institutes in the city. He discussed about the various solar power plants that are active in Chandigarh. He mentioned that Chandigarh is selected to be the role model for Solar City for other states by our respected PM, Shri Narendra Modi and the vision of making Chandigarh Solar City by 2030.

In the evening session, students watched the Documentary 'Exploring the Enchanting Diversity of Butterflies in the region of Chandigarh and Lower Himalayas' by Sh Devender Singh Chauhan, Range Forest Officer, Department of Forest and Wildlife, Chandigarh organised in association with Guru Nanak Sacred Forest, SGGSC- 26. The day ended with a cleanliness drive contributing to a clean, hygienic and litter-free Campus.

## • Competitions and other Activities

### National Science Day

Feb 26,2024

**Organising Committee: Postgraduate Departments of Biotechnology and Microbial Biotechnology, Chemistry, Physics, Mathematics, Zoology, Computer Science and Undergraduate Department of Botany, Prof Puran Singh Science Society**

The Chief Guest, Dr Jatinder Kaur Arora, Executive Director, Punjab State Council for Science & Technology, Chandigarh and Guest of Honour, Mr TC Nautiyal, IFS Director, Department of Environment, Chandigarh Administration emphasised the pivotal role of science in addressing contemporary challenges and shed light on the intersection of environmental conservation and scientific innovation as envisioned in Viksit Bharat: The Vision of hon'ble PM Narendra Modi, which aims to reduce environmental problems and create a sustainable future.

The Keynote Address was delivered by Prof Raghavendra Gadagkar, DST Year of Science Chair Professor, Centre for Ecological Sciences, Indian Institute of Science, Bangalore; Honorary Professor, Jawarharlal Nehru Centre for Advanced Scientific Research, Bangalore and Indian Institute of Science Education & Research, Mohali and Senior Fellow, Zukunftskolleg, University of Konstanz. His discourse on sustainable practices and ecological resilience left a lasting impact on the audience.

Present at the event were special invitees Mr Gurharminder Singh, Joint Director, Directorate of Environment & Climate Change, and Mr Sukhwinder Singh Abrol, Project Director, Chandigarh Renewable Energy and Science & Technology Promotion Society (CREST). The occasion was graced by the esteemed members of the Sikh Educational



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Society, President, S Gurdev Singh Brar, IAS (retd) and Secretary, Col (retd) JS Bala.

The highlight of the day was the Science Models/ Projects display, where students presented different models and projects on various topics of Science, Technology, Engineering and Mathematics. A plethora of events including Educational Visits, Workshops on Science for a Sustainable future, Expert Lectures, Skill Enhancements Workshops, and various Inter-College Competitions were also organised spanning a period of one month.

## **WORLD WATER DAY**

**March 28, 2024**

**Organising Committee: Dharat Suhavi Environment Society, SGGSC Institution Innovation Council and SGGSC NSS UNIT**

The college in collaboration with Central Ground Water Board, North Western Region, Chandigarh, Ministry of Jal Shakti, Govt of India

commemorated World Water Day, 2024 by organising a Workshop on Principles and Practices for Sustainable Water Management titled - 'Catch the Rain- Sustainable Water Conservation Practices'. It aimed to inspire proactive measures towards a water-secure future. Mr Aditya Sharma, Hydrometeorologist, Central Ground Water Board, North Western Region, Chandigarh was the Resource Person for the event. He emphasised the importance of adopting sustainable strategies to safeguard this invaluable resource for future generations. A highlight of the Workshop was a hands-on demonstration showcasing Ground Water Quality Analysis, offering attendees practical insights into assessing and preserving groundwater integrity.

## **World Ozone Day, 2023:**

**15 September, 2023**

**Organising Committee: Dharat Suhavi Environment Society and MGNCRE-SAP**

A Climate Change Ambassador Programme was organised in collaboration with the Climate Change Cell, Department of Environment, Chandigarh Administration & Swarmani Youth Welfare Association, Chd. It was sponsored by the Department of Science and Technology, Government of India. Sh TC Nautiyal, IFS, Director Environment, Department of Environment, UT Administration, Chandigarh was the Chief Guest and S Karandeep Singh Cheema, Joint Secretary, Sikh Educational Society was the Guest of Honour for the



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event. They awarded Certificates of Appreciation to Green Ambassadors from various institutions for their outstanding commitment to environment conservation.

Dr Rupali Jandrotia, Senior Project Associate, Climate Change Cell, Department of Environment, Chd Administration, introduced the programme, highlighting the theme - Montreal Protocol: Fixing the Ozone Layer and Reducing Climate Change. Mohd Amzad, President, Co-Founder, Swarmani Youth Welfare Association gave a video presentation on Ozone Layer.

The first four sessions included lectures by distinguished Resource Persons. Mr Rahul Mahajan, Founder, Organic Sharing and Environment Activist; Mr Prabhu Nath Shahi, Director- Jai Madhsudan Jai Shreekrishna Foundation, Sanjojak Hariyawal Chd; Dr Vivek Trivedi, Social Development Officer DAY NULM Cum Director Capacity Building, SBM 2.0, MCC; and Mrs Anju Mahajan, Lecturer In English and Environment Activist, Govt Senior Secondary, School, Sector -33, Chd, spoke on the hazardous effects of Ozone-depleting substances like Chlorofluorocarbons, and emphasised the urgent need to transit to Renewable Energy Sources reducing Greenhouse Gas Emissions and promoting Sustainable practices.

Climate Ambassadors at UN-Youth For Climate Change, Anantha Laxmi MK and Novya Jyoti, delivered lectures highlighting individual actions, government policies, and global cooperation, for tackling climate change, in the last two sessions.

The Valedictory Session was conducted by Mr Rohit Kumar, Chairman, Swarmani Youth Welfare Association and Mr Kulwinder Singh, Dean Sciences presided over the technical sessions of the Programme.

## **INTERNATIONAL WORKER'S DAY 2024** **May 1,2024**

The hard work put in by the Gardeners was highly acknowledged for creating a Certified Green Campus that fetched the College, Best Campus Award 2024 and numerous awards in various Flower Festivals. The daily efforts of the Sweepers in maintaining a Zero Litter and Plastic Free Campus, promoting the Best Practice of Environmental Sustainability was recognised and praised. The College has always respected the work done by its employees and rewards them from time to time by distributing summer and winter Uniforms upholding the Institutional Distinctiveness of Seva. The Management and Principal, Dr Navjot Kaur presented Cash rewards of Rs 2100/- to all the Employees honouring their contribution and



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achievements.

## Workshops/Seminars/Interactive Sessions

### World Wetland Day

### WORKSHOP ON BIODIVERSITY CONSERVATION

FEB 13,2024

**Organising Committee: Department of Botany and Prof Puran Singh Science Society of the College**

It aimed to shed light on the critical need to protect our natural heritage for a sustainable future. The principal, Dr Navjot Kaur welcomed the Resource Person, S Gurharminder Singh, Joint Director, Department of Environment and Climate change, Punjab Biodiversity Board, Chandigarh. He emphasised that biodiversity is not just about saving species; it's about preserving ecosystems that support life on Earth. He further highlighted the interconnectedness of all living beings and ecosystems, underscoring the importance of biodiversity conservation in mitigating climate change, ensuring food security, and maintaining ecological balance. The Workshop was highly interactive and queries of participants were thoroughly answered by the Resource Person.

### WORKSHOP ON MILK BAG RECYCLING

AUGUST 30,2023

**Organising Committee:**

**Dharat Suhavi Environment Society, MGNCRE-SAP, and Institution Innovation Council of the College**

Ms Hansu Pardiwala (Head, Har Ghar) and Ms Kunti Oza (Head, Clean Mumbai), and Ms Chitrs (Director, Garbage Free India) were the Resource Persons for the Workshop. They appreciated the vision and efforts of Principal Dr Navjot Kaur for introducing the novel concept of Milk bag Recycling in the College, that has helped to save more than 700 kgs of milk bags from going into Landfills and choking water bodies. They elucidated that the Milkbag Recycling Project is not just about disposing of packets; it is about transforming our habits and contributing to a sustainable future and thereby encouraged students and faculty to actively participate in this endeavor. Participants were also given instructions on how to sanitize and recycle empty milk bags. The College has a designated collection point



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near the College cafeteria to ensure a convenient recycling of the milk bags.

## **SUPOSHAN: Strategy for undertaking Participatory Outreach by Students for Health and Nutrition**

**December 7,2023**

**Organising Committee: Unnat Bharat Abhiyan of the College**

The college implemented SUPOSHAN: Strategy for undertaking Participatory Outreach by Students for Health and Nutrition, an initiative of Samskruti Foundation in keeping with the International Year of Millets 2023.

As part of the Millet Lunch Box Activity, two nutritious Millet Meals, Barnyard Millet Khichadi and Barnyard Millet Kheer were incorporated in the College hostel menu. The event was organised with an aim to transform eating habits for health and wellness, and encourage students to embrace Millets and harness their multitudinal health benefits.

The students residing in the hostel warmly welcomed the initiative and shared a positive response about its nutritional benefits. The introduction of Millet-based meals will not only diversified the menu, but also contribute to holistic development of the students by promoting a healthy diet.

## **NATIONAL SEMINAR ON SUSTAINABLE HORIZONS**

**NOVEMBER 23,2023**

**Organising Committee:MGNCRE-SAP, SGGSC-Counselling Cell, and SGGSC-Institution Innovation Council**

The college organised a National Seminar on Sustainable Horizons: A Blueprint for Ecological Harmony and Holistic Wellbeing. The aim of the Seminar was to explore various aspects of sustainable development, ecological harmony, and holistic well-being. Principal, Dr Navjot Kaur welcomed the esteemed Resource Persons of the Seminar. The first session included an Expert Lecture on “Converting Normal Farmland into Bird and Butterfly Conservation Area” delivered by Dr Harmeet Singh, Former Principal Commissioner, Income Tax, Indian Revenue Service. He focussed on the benefits of creating diverse habitats, minimizing pesticides and engaging with local conservation experts for guidance and community involvement.

In the second session, Dr Ruby Ahuja, Chair, CII IWN, Chandigarh Tricity Chapter, Consultant Psychologist & Founder Cognitvee discussed the environmental impact of lifestyle choices and incorporating eco-friendly practices promoting over all wellbeing in



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her Lecture titled “Holistic Health and Sustainability.”

The third session included an Expert Lecture on “Environment Cleaning of Pollutants by Microbes” delivered by Dr Swaranjit Singh, Director, SAS Polyclinic; President, Microbiologist Society of India, Chandigarh, Tricity, Nagaland, Manipur and Ladakh & Fellow, National Environmental Science Academy. He talked about the innovative ways of eliminating pollutants from aquatic bodies using Microbes.

The fourth session featured an enlightening Lecture by Sh Abhijit Pathak, a Senior Scientist from the Central Pollution Control Board, Kolkata on "Environment, Global Challenges, Society, Sustainability, and SDGs." The Seminar was attended by students of various streams and their queries were answered by the Resource Persons.

## **World Pollution Prevention Day**

**December 13, 2023**

**Organising Committee: Dharat Suhavi Environment Society and Institution  
Innovation Council of the College**

An insightful Workshop on Clearing the Air: Chandigarh's Fight Against Pollution was organised in collaboration with the Central Pollution Control Committee, Paryavaran Bhawan, Chandigarh. The Workshop aimed to provide a platform for participants to gain a deeper understanding of the local efforts to combat pollution and foster a sense of responsibility toward environmental stewardship.

The Resource Person, Mr Sushil Dogra, Scientist, Chandigarh Pollution Control Committee, Chandigarh elucidated on the measures and strategies adopted by Chandigarh in its ongoing battle against pollution. He emphasised that addressing environmental concerns is a collective responsibility

## **Educational visit to Chhatbir Zoo**

**March 20, 2024**

**Organising Committee: PG Department of Zoology**

The visit was organized for students of BSc II Med and MSc I Zoology . The purpose of the visit was to enlighten students on biodiversity and its conservation by orienting them towards wildlife values. Students observed myriad animals during a two-hour walk in the zoo while studying their wildlife conservation efforts through the taxonomical distribution theme followed by the Zoo. The zoo provided an informative, educational, and engaging



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experience to students. Students were sensitized about animal healthcare, animal behaviour, and captive breeding aspect of wildlife species. Students saw 1241 animals belonging to 103 species in a vast expanse of 505 acres.

## **Educational visit to the Govt Fish Farm**

**March 21, 2024**

**Organising Committee: PG Department of Zoology**

The college organised an educational visit to the Govt Fish Farm at Fagan Majra, Fatehgarh Sahib (Punjab) for students of MSc II Zoology . The students were introduced with various exotic and indigenous fish that are culturable. They were demonstrated different techniques and methodologies of fish culture. Different types of cultures and egg hatching and rearing systems were discussed, viz., Happa culture etc. Students were enlightened on the differences between hatchling, fingerling and fry, with respect to size and suitability for culture. The parameters of fish culture such as transport, conditioning etc. were discussed. Pond infection, spoilt cultures, their ways of detection, techniques to tackle them such as aeration, liming, KMnO<sub>4</sub> etc. were talked about. There was an extensive discourse on handling of fish feed, methods of preparation, machinery involved and home-made vs. market feed.

## **Swachhata Hi Seva Campaign-2023**

**September 29, 2023**

**Organising Committee: NSS units, Unnat Bharat Abhiyan, Institution Innovation Council and Rotaract Club SGGSC**

Focusing on the theme of Garbage Free India , the college organized a campaign with an aim to create Jan Andolan to disseminate the importance of a Sampurna Swachh Village and to reinforce the concept of sanitation as collective responsibility for all.

An array of activities were conducted in the village Chaumajra (Mohali), an adopted village of the College. Under the “Hara Geela Sookha Neela Campaign,” the students carried out an awareness rally and a sanitation drive in the Village. The student volunteers interacted with the villagers and Anganwadi workers for an insightful exposure and a firsthand understanding of the prevalent challenges. The Campaign was a resounding success, promoting the pursuit of a cleaner, greener, and more sustainable India



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## Swacch Sarvekshan

July 2, 2023

Swacch Sarvekshan 2023 was been launched by Govt of India and Chandigarh City also enthusiastically participated in the same. Chandigarh rose from position 66 to 12th last year. Sri Guru Gobind Singh College upholds the aspiration to take Chandigarh into Big Five and will contribute in a big way to enable achieving it.

## Akshay Urja Diwas

SEPTEMBER 13,2023

**Organising Committee: Dharat Suhavi Environment Society, Prof Puran Singh Science Society, MGNCRE-SAP and Institutional Innovation Council**

A workshop on Solar Photovoltaic Based Power Generation was organized to commemorate Akshay Urja Diwas in collaboration with the Electrical Engineering Department and Solar Energy Society of India, Punjab Engineering College, Chandigarh. It focused on the vast potential of Solar Energy.

The Workshop began with an Address by Principal Dr Navjot Kaur in which she highlighted that the College has been an advocate of many environmental sustainable practices and is also a proud recipient of Solar Chandigarh Ambassador Award 2022.

Dr Rintu Khanna, Professor and Head, Electrical Engineering Department, PEC, Chandigarh, and the student volunteers of SESI, PEC, Chandigarh provided Hands-on-training and demonstrations of Installation, and maintenance of IC Circuits.

Dr Ajay Kumar, Assistant Professor, Electrical Engineering Department, PEC, Chandigarh gave an insightful lecture on the intricate workings of Solar Photovoltaic Systems. He elucidated upon the Green Grid Initiative- One Sun, One World, One Grid of the Government of India and further dwelled into the theoretical foundations and practical applications of harnessing solar energy. The esteemed guests along with the student volunteers from PEC, Chd visited the Mini-Urban Forest on Campus.



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## World Environment Day 2023

**June 5, 2023**

The college commemorated World Environment Day 2023 in collaboration with Confederation of Indian Industries (CII), Chandigarh. Mr Vivek Gupta, Chairman CII; Mr Anurag Gupta, Vice Chairman, CII; Mr Sumanpreet Singh, Deputy Director, CII, Chandigarh and their team along with Principal, Dr Navjot Kaur visited the Guru Nanak Sacred Forest: A Mini Urban Forest on Campus. They planted Native Species of trees, distributed medicinal plants to students and faculty and installed Bird feeders in the Bebe Nanaki Garden of Fragrance of the College. This was followed by a Nukkad Natak on the theme 'Lend a Hand and Save the Planet' performed by students of Paigam Theatre Group of the College. In consonance with World Environment Day 2023, promoting a sustainable future and encouraging a healthy diet, Millet delicacies were served to all dignitaries thereby celebrating International Year of Millets 2023 in the light of India's G20 Presidency. An awareness Workshop titled Sustainable Practices and Mission Life was also held under the aegis of Mission LIFE initiative of Ministry of Environment, Forest and Climate Change conducted by Mr Ajay Tanwar, Consultant MGNCRE.

Paigam Theatre Group of the college won the FIRST PRIZE in Nukkad Natak competition organised by National Institute of Technical Teachers Training & Research, Chandigarh under the aegis of Ministry of Education Government of India held on 03/06/23. The Nukkad Natak was based on the theme 'Environmental Conservation: Our Responsibility', a part of the World Environment Day Celebration where teams from across Chandigarh city participated.

## H. Green, Environment, Energy and Water Audits

The College conducted Environment & Green Audit, Water Audit and Energy Audit realising the social responsibility of the institution by evaluating its contribution towards a sustainable future. These audits focused on the green campus, waste management, water management, air pollution, energy management and carbon footprint etc being implemented at the College. The green initiatives carried out by the College towards environment and sustainability has been highly appreciated in the audit certificate. These audit reports will further facilitate more



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effective management and governing of the eco- friendly initiatives in the College and provide students and staff a better understanding of Green impact on campus.



Certificate of Environment & Green Audit



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AUDIT CERTIFICATE

 EHS  
alliance

CERTIFICATE No. EHSAP33B

**CERTIFICATE**

**M/s Sri Guru Gobind Singh College**  
Sector-26 Chandigarh 160019 (India)

*Has been assessed by us for the comprehensive study of Energy Audit on institutional working framework to fulfill the requirement of*

**Energy Audit**

*The energy saving initiatives carried out by the college has been verified on the report submitted and was found to be satisfactory.*

*The efforts taken by management and faculty towards all type of energy used in college and sustainability are highly appreciated and noteworthy*

Date of Audit: 27 Dec, 2021

  
BEE No.-EM7053  
**Manoj Kumar**  
For EHS Alliance Services

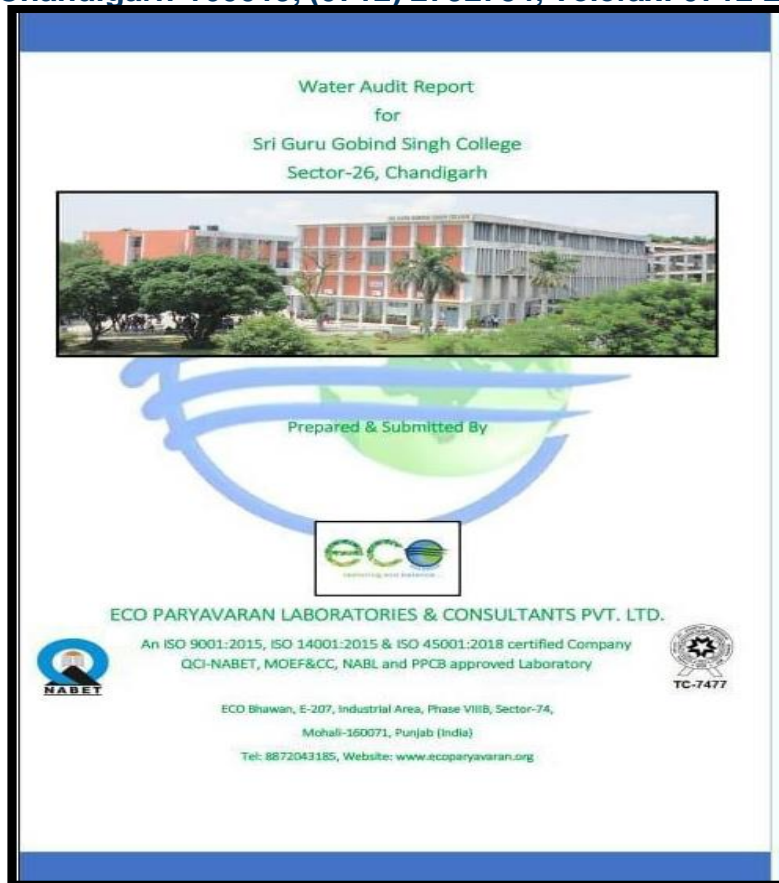


EHS Alliance Services  
Plot No A-72, Surya Vihar, Near Sector-4, Gurugram (Haryana)-122001  
Phone-0124-2250624, Email: ehsalliance@gmail.com, www.eshall.in

Certificate of Energy Audit



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### Clean and green campus recognition awards

- First prize under “Best college campus” maintained. First Prize in “Flowers Grown in Pots and Cut Flowers” category in the 52nd Rose Festival, Municipal Corporation, UT, Chandigarh on February 25, 2024.



**First Prize under 'Best College Campus Maintained' and First Prize in 'Flowers Grown in Pots and Cut Flowers' category in the 52<sup>nd</sup> Rose Festival, Municipal Corporation, UT, Chandigarh in 2024**



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- Recognised as District Eco-SDG Challenger and Champion 2023 with outstanding performance, Grade 'S', for Chandigarh district by the APEX SDG, a consortium for the District Eco-SDG Challengers 2023, registered under the Ministry of Micro, Small and Medium Enterprises (MSME) on January 23rd, 2024.



**Awarded District Eco-SDG Challenger and Champion 2023 with outstanding performance, Grade 'S', for Chandigarh district by the APEX SDG**

- International Green University Award- 2023 by Green Mentors, powered by Law of Nature, Special Consultative Status with Economics and Social Council of United Nations for outstanding contribution towards fostering a culture of environmental responsibility with the academic community on September 16, 2023.



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**Sri Guru Gobind Singh College won the International Green College Award 2023**

**B. Carbon Footprint Reduction and Natural Water Recharging with Green Cover**

Such a majestic green cover in the College campus is a step forward towards reducing the carbon footprint in the vicinity. This footprint is produced via direct emissions of greenhouse gases associated with combustion of fossil fuels for heating and transportation, indirect emissions associated with electricity purchases and finally other emissions related to solid waste, refrigerants, land use management, etc. A typical tree can absorb around 21 kilograms of carbon dioxide (CO<sub>2</sub>) per year; however, this figure is only achieved when the tree is fully grown - seedlings will absorb significantly less than this. Over a lifetime of 100 years, one tree could absorb around a tonne of CO<sub>2</sub>.

The expanded green cover of the College includes a fast growing mini urban forest with Miyawaki technique. A variety of plants, shrubs, herbs and grass act as natural water recharging systems. The College persistently enriches its floral diversity with various plantation drives with the active participation of the students and staff.