

ENVIRONMENT SUSTAINABILITY AND MANAGEMENT POLICY

“COMMITMENT TOWARDS A BETTER TOMORROW”



ENVIRONMENT SUSTAINABILITY AND MANAGEMENT CELL

SANT BABA BHAG SINGH UNIVERSITY

Vill. Khiala, P. O. Padhiana Distt. Jalandhar - 144030



2021

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1. VISION: The ESM cell envisions to embed an outstanding environmental sustainability performance and serve as a voice and vehicle for improvement along with the enhancement of the environment.

2. MISSION:

- The ESM cell is committed to addressing environmental issues in cost- effective manner while following a disciplined approach to achieve sustainability.
- It aims at educating the staff and students to contribute effectively towards the welfare of the environment.

3. KEY PRIORITY AREAS:

For the assurance of the sustainable environment goal, the key areas of focus shall be:

1. Transforming the campus into ECO-Campus by enhancing the beauty of the university campus.
2. Solid Waste management through compost program.
3. Conservation and Judicial utilization of Energy.
4. Installation of Solar Panels.
5. Rainwater harvesting Projects.
6. Provision of a safe and healthy environment for the staff and students.
7. Organizing awareness campaigns to make the students and staff environment conscious.
8. Sensitizing the communities in the vicinity regarding the adverse effects of their activities on the environment.
9. Integrating sustainable development and environmental management courses in the curriculum of the students.
10. Establishment of multidisciplinary research projects to tackle the environmental issues at local, national and global levels.
11. Incorporation of Green Audit as an indicative tool to measure the implementation of sustainable development of the university.





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4. Policy for the Beautification of the campus

SBBSU campus is attractively designed, has well-maintained lawns, gardens, trees with a positive and peaceful environment. The campus acts as a second home to all the students and staff. A beautiful and vibrant campus ushers in an energetic and positive atmosphere and instils a sense of unity and pride.

1. The landscape of university is beautified with the avenue trees along all the roads; shrubs and lush green lawns and sports ground inside the campus. The canopy of the big trees provides the home for many birds and small animals which resides inside the campus. Each block has its own small garden which has trees, ornamental shrubs and flowering plants. The gardens are maintained by the gardener and supervisor and an internal committee was constituted to further beautify the campus.

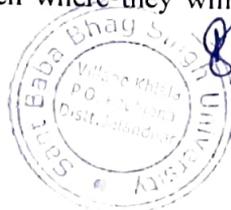
2. The university is developing a botanical garden which spread in an area of 4.5 acre land. The Botanical garden is further subdivided into many sections and designed as per Bentham and Hooker Classification. The botanical garden has separate sections for monocots, dicots, gymnosperms and pteridophytes. It also contains arboretum, cactus and succulent section, palm garden, rose section, floriculture section, Hydrophyte section, medicinal and aromatic garden, bamboo section and Palm garden. Presently Botanical garden is under construction and have 90 plant species. Beside that university is also developing the orchards inside the campus. 400 plants of 10 fruits plant will be planted inside the orchard of the campus.

3. University have many seasonal flowering species such as Petunia, Phlox, Zinnia, Stocks, Sweet William, Calendula, Gazania, Poppy, Nasturtium etc. tree species, Alstonia, Jacranda, Acacia, Arjun, Stocks, Bottle brush, Drek, Neem, Shisham, Peepal and Banyan etc. fruit trees Mango, Guava, Jamun, Banana, Litchi etc., Medicinal plants, Ashwagandha, Tulsi, Neem, Aloe vera, Glee, Arjun, Trimeria and Karri Patta etc.

4. The University shall take steps to display the common names and scientific names on the trees and plants inside the campus for convenient identification of the flora.

5. The students will be motivated to participate in a community garden where they will grow organic products and educate campus about healthy living.


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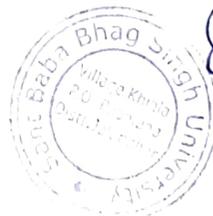
6. To bring student volunteers together each semester to beautify the neighbourhood with projects like building community gardens, clearing dead plant matter etc. Students and faculty shall choose certain areas of the campus for which they will be responsible.
7. The regular maintenance and repair of the parking lots should be carried out in the campus as it is a mark of good impression for the campus visitors.
8. The clearly labelled bins will be procured for the cleanliness of the campus.
9. Steps will be taken to promote eco-friendly biodegradable eating items in the canteens of the campus.
10. A recycling program will be developed for creating a more sustainable campus.

5. Policy for Solid Waste management

Solid waste not handled properly leads to the degradation of the environment which, in turn, affects the flora and fauna. Keeping this in mind, the feasible solutions will be implemented in the university to attain the status of zero waste campus. The main objective of solid waste management is to convert the biodegradable waste into beneficial products by adopting composting programme.

1. Conversion of the Solid waste into compost signifies the assurance of the university to reduce carbon footprint through a continuous programme. The effective utilization of the biowaste is an innovative step to uplift the society.
2. Use of pesticides and harmful chemical fertilizers should be replaced by organic manure produced by green waste.
3. Create the facilities for the students to undertake research and project works in the field of waste management, composting, vermicomposting of biowastes, organic/ natural farming etc.
4. University will organize workshop explaining the methodology of manure production by vermicomposting. Such workshop will be open for participation to the farmers also.
5. The composting programme should be initiated in collaboration with the nearby villages to rejuvenate the surrounding community.


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6. Energy Conservation Policy

To exhibit our commitment towards environmental management and sustainability, certain measures should be implemented for energy conservation on the campus. SBBSU will adopt and practise various strategies aimed at effective and optimum energy utilization whilst curtailing its expenditure.

1. Firstly, operate the electrical appliances only when needed. Switch off when not in use like PCs, fans, bulbs, projectors, printers.
2. In the classrooms and hostel rooms, CFL bulbs have been installed because its durability is more, consumes less energy and saves money. Efforts should be made to maximizing the use of natural light whenever possible.
3. The office equipment purchased for the university should be Energy STAR labelled products. Such rated devices cut down up to 70% of energy costs in comparison to the average electronic equipment.
4. Reduction in the number of office equipment and encouraging the use of facilities such as printers, computers at the central faculty labs. All equipment should be turned off at the end of working hours.
5. The use of air conditioners should be minimized.
6. The university already provides E-rickshaw services to get around the campus which is more energy-efficient than the conventional autorickshaws.
7. Energy-efficiency initiative has been taken by SBBSU by shifting to a renewable energy source via the installation of solar panels. Solar energy not only limits expenses but also reduces carbon emissions, thus providing a clean and reliable energy source. The university currently runs 100 kW of solar panels and should be upgraded in the future.
8. Water management is another factor that is responsible for effective energy management and conservation. The following steps should be considered to save water:
 - a. Avoiding unnecessary wastage of water.
 - b. Checking for any leaks or water dripping points and immediate reporting of the same to the concerned authority.


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- c. The rainwater harvesting initiative will be taken by university by capturing the rainwater. The rainwater can be collected on the rooftop of all its buildings and discharge into storage tanks for using it in the watering of the gardens and lawns.
- d. Start the water awareness campaign under the title "SAVE WATER, SAVE LIFE" to educate and sensitize everyone towards saving water.
9. Any suggestions or recommendations regarding the energy conservation by faculty, staff, and student should be addressed to the ESM cell, SBBSU.
10. Inclusion of energy conservation agenda in the student orientation programs.

7. Green Campus Initiative Policy

7.1 Policy for restriction of automobiles in campus

The university is committed to restrict the unnecessary movement of automobiles in the campus so that pedestrian will feel comfort inside the campus. University has developed certain guidelines to restrict the automobiles inside the campus as

1. The parking for two-wheeler and four-wheeler is provided near gate for students and staff separately and all are encouraged to use pedestrian paths inside the campus.
2. A separate parking is provided for block number 7 which is far away from main campus in the university.
3. Barricade and speed breakers were installed to check/limit the speed of vehicle and to stop the unnecessary movement of automobiles inside the campus of the university.
4. University also provides e-rickshaw to the staff and students for visiting the block 7 and agriculture farm which is far away from the main campus.
5. No vehicle will be given entry without the proper driving license and helmet (in case of two-wheeler) and seat belt (in case of four-wheeler) inside the campus.
6. All staffs and students follow the parking rules as per notice in the parking area. A separate parking will be provided for bicycle inside the campus.
7. Visitor vehicles are not permitted inside the campus without gate pass and their parking is provided outside the university gate. Gate pass will be provided to the needful visitor at the university gate.

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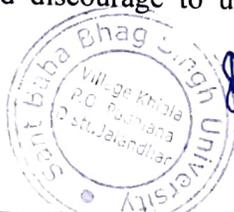
8. Vehicles will be provided to disable person or old age visitors from the main gate on request.
9. If students want to use their own vehicle for transportation from home to university they should deposit declaration form duly signed by their parents and obtain the vehicle pass from the transportation officer/ registrar office.
10. Inside the campus the speed of the vehicle is restricted to 30 Km/hr. On violation the speed limit the vehicle will be seized by the transportation office.
11. No students are allowed to go outside the campus during working hours of the university without producing the valid gate pass duly signed by their class incharges, CoD and Deans of the institute.
12. The movement of staff and students are under the surveillance of CC cameras, covering the main gate.
13. A committee is constituted to monitor the guidelines for automobiles inside the campus. Complaints and violation of the above guidelines will be handled by the committee. After the meeting they will decide the serious and disciplinary action to be taken against the offenders.

7.2 Policy for use of Bicycles/ Battery Power vehicle and pedestrian pathway

The university is committed to reduce the air pollution inside the campus and to fight back the increasing air pollution following initiatives has been taken.

- 1 Many students and staff living nearby villages prefer to use bicycle as a mode of transport for attending university.
- 2 University provides the separate parking for bicycle in each block of the university. It will also provide the bicycle to staff and students from main gate on the basis of fare per hour inside the campus for transportation as a green initiative.
- 3 Use of bicycle is environment friendly and help in the reduction of air pollution and also increases the health benefit.
- 4 University developed the pathways inside the campus for pedestrians. These pathways serve as a shortcut to different blocks and discourage to use automobiles inside the campus.


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- 5 All pathways are lined with trees inside the university campus so that the students and staff experience comfort in walking through pedestrian pathways
- 6 The university provides e-rickshaw to the staff, students and visitors as a shuttle to transport them inside the university blocks
- 7 The entry of unnecessary vehicle is restricted so that student, staff and visitor can walk with comfort inside the campus.

7.3 Policy to ban the use of plastic

University is committed to ban the single use plastic such as plastic bottles, polythene bags, spoon, and straws. However, university is trying to create awareness among the students, staff and vendors to reduce the plastic waste and completely stop the use of single use plastic. The policy for banning the single use plastic inside the campus as follows

- 1 A committee is constituted inside the campus to create the awareness among student and staff about the use of plastic.
- 2 The university is trying to tackle the plastic waste problems with UNEP programme of 3Rs i.e. Reuse, Reduce and Recycle.
- 3 Two types of bins are kept inside the campus. Green colour bins are kept for organic waste and blue colour bins are kept for single use plastic, wrappers and other plastic waste
- 4 Organic waste can be converted into compost in vermicomposting unit. While single use plastic waste is collected and sold in the nearby recycle units
- 5 Student, staff and visitors are encouraged to carry cloth bag instead of polythene and their own bottle for drinking water.
- 6 Awareness programmes are conducted to create awareness about the harmful impact of plastic and its management through 3Rs i.e., Reuse, Reduce and Recycle.


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8. FUTURE GOALS:

1. Survey of Green Flora Cover in the campus.
2. To identify gaps and suggest recommendations to improve the Green Campus status of the institute.
3. Engagement of local farmers on campus.
4. To execute good, protracted waste management strategies to extenuate gross waste generation and to increase recycling and reuse of waste products.
5. Enhance the alertness for environmental guidelines and duties among students.
6. Making of "Eco club/Nature club" with the group of students for enhancing the scenic beauty of the campus.
7. These clubs shall regularly assess the environmental condition of the campus.
8. Propose a system for converting biodegradable waste especially mess waste into vermicompost/composting which is a useful resource. The vermicompost produced is used in nurseries/gardens and agriculture fields of the University.
9. Investment in shifting towards the renewable energy sources in a systematic and affordable manner.



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