

# **GREEN CAMPUS POLICY**



# श्री लाल बहादुर शास्त्री राष्ट्रीय संस्कृत विश्वविद्यालय

(संसद के अधिनियम (संख्या 2020 का 5) द्वारा स्थापित एक केन्द्रीय विश्वविद्यालय)

SHRI LAL BAHADUR SHASTRI NATIONAL SANSKRIT UNIVERSITY (A Central University established by an Act of Parliament (No.5 of 2020))

नई दिल्ली New Delhi -110016 (India)

अधिशासी अभियन्ता/Executive Engineer श्री लाल बतादुर शास्त्री संस्कृत विश्वविद्यालय Shri Lal Bahadur Shastri National Sanskrit University नई दिल्ली/New Delhi-110016

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सत्यापित

यूलसचिव / Registrar

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युलसचिव / Registrar श्री लाल बहादुर शास्त्री राष्ट्रीय संस्कृतिश्चिद्यविद्यालय Shri Lal Bahadur Shastri National Sanskrit University बी-4, युतुब सांस्थानिक क्षेत्र, नई दिल्ली-110016 B-4, Qutub Institutional Area, New Delhi-110016



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सत्यापित मुलसचिव / Registral VERIFIED को लाल बराउर शास्त्री राष्ट्रीय संस्कृत विन्द्रहेल्किन Shri Lal Bahadur Shastri National Sanskrit University बी 4, कुतुब सांस्थाविक क्षेत्र, नई बिल्ली 110016 B-4, Qutub Institutional Area, New Delhi-110016

# श्री लाल बहादुर शास्त्री राष्ट्रीय संस्कृत विश्वविद्यालय SHRI LAL BAHADUR SHASTRI NATIONAL SANSKRIT UNIVERSITY

# **GREEN CAMPUS POLICY**

### I. INTRODUCTION

Education has been described as humanity's best hope and most effective means in the quest to achieve sustainable development. In this context, Shri Lal Bahadur Shastri National Sanskrit University has a special responsibility to help define and exemplify best practices.

#### **II. PREAMBLE**

A Green Campus is a place where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices on the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to the environmental, social, and economic needs of mankind.

A green campus in a higher education community with optimum land use, environmental planning and resource management i.e., improving energy efficiency, conserving resources, enhancing environmental quality including habitat preservation, healthy living environment, use of renewable energy and management of wastes, water recycling etc. The buildings within the campus should be based on green building concepts to the extent possible.

Greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energy for its daily power needs, correct disposal handling, purchase of environment-friendly supplies and an effective recycling program. The University must work out the time-bound strategies to implement green campus initiatives. These strategies need to be incorporated into the institutional planning and budgeting processes to develop a clean and green campus.

#### **III. SCOPE OF THE POLICY**

The Green Campus, Energy and Environment Policies will develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, and administrative functions from the standpoints of energy efficiency, sustainability, and the environment.

The focus areas of this policy are:

Clean Campus Initiatives

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Shri Lal Bahadur Shastri National Sanskrit University

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- Landscaping Initiatives
- Clean Air Initiatives
- Smoking Free Campus
- Infrastructure
- Solar Power Plant
- Installation of Energy Efficiency Equipment
- Water Conservation through Rainwater Harvesting System
- Waste Management processes
  - \* Solid Waste Management
  - \* Liquid Waste Management
  - \* E-Waste Management
- Awareness Initiatives
- Environment-centric Student Societies and Department Activities
- Green Audit
- Energy Audit
- Plastic-Free Campus
- Procurement Policy

#### **IV. OBJECTIVES OF THE POLICY**

- To protect and conserve ecological systems and resources within the campus.
- To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practices and the reduction of any adverse effects on the environment.
- To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste, wherever possible. To make the campus plastic-free.
- To conduct environmental and energy audits from time to time.
- To minimize the use of paper in administration through having a policy for E-governance,

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### **V. POLICY:**

## (A) CLEAN CAMPUS INITIATIVES:

SLBNSU pledged to actively coordinate cleanliness activities in the campus and beyond the campus by the vision of 'Swatch Bharat Abhiyan'.

It commits to continuing with this Programme. The broad vision is as follows:

- Generating mass awareness of cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives. The idea is to motivate them to contribute proactively.
- 2. Activities under 'Swatch Bharat Abhiyan' will be a key component of all the community work being done by NSS, NCC and Green Society volunteers of the university.
- 3. Staff Members will be encouraged to participate in the cleanliness drive in campus.
- 4. Events such as poster and slogan competitions, essay writing, spoken word poetry, speeches, and skits on 'Swatch Bharat' will be organized.
- Rallies on themes connected with 'Swatch Bharat Abhiyan' in and around the campus will be conducted to create mass awareness.
- 6. Remove all kinds of waste material like broken furniture, unusable equipment etc.
- 7. Administer the pledge by students and staff members to maintain the cleanliness of the university campus and its surrounding areas on an annual basis.
- 8. Conduct workshops on the 'RRR': Reducing, Reusing and Recycling of waste.
- 9. Commit to managing waste and maintaining a clean campus, especially during university events.

#### (B) LANDSCAPING INITIATIVES:

The campus landscape, like its buildings, can be seen as the physical embodiment of university values. It is a vital part of the life of a campus, providing space for study, play, outdoor events, relaxation and aesthetic appreciation. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus. The landscape serves as a visual representation of the campus community's commitment to sustainability. Landscapes are so visible and accessible, and a great way to build awareness around the campus landscaping initiatives is the environment.

The SLBNSU commits to enriching healthy habitat and maintaining the symbiotic relationship of the university with nature by

- Organizing annual tree plantation drives
- Encouraging student societies to hold tree-planting events

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#### (C) CLEAN AIR INITIATIVES

SLBNSU encourages the students and staff to use public transportation. SLBNSU encourages carpooling to campus, an activity that will control air pollution and strengthen social interaction. The entry of automobiles inside the campus is restricted to discourage the use of private vehicles at least once are twice a week. E-charging stations will be built to encourage the use of e-vehicles.

#### SMOKING FREE CAMPUS:

In compliance with the framework provided by the National Tobacco Control Programme (NTCP) 2007-2008, the SLBNSU prohibits smoking and the use of other tobacco products, SLBNSU has partnered with Police at Campus levels and World Lung Foundation-South Asia, in promoting a tobacco-free environment. As a step in this direction, smoking and use of tobacco in and around the campus is strictly prohibited. The university ensures enforcement of the antismoking policy of the Govt. of India.

#### **D) INFRASTRUCTURAL INITIATIVES**

#### RENEWABLE SOURCES OF ENERGY:

SLBNSU is dedicated to minimizing and sustainably managing its use of electricity. The university believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus. The University has installed a 150.2 KWp Solar Power Plant on the rooftops of the buildings of the University and connected it with the electricity supplying agency M/s BRPL's grid.

#### ENERGY SAVING AND ENERGY-EFFICIENT EQUIPMENT:

We commit to installing environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies. The university believes in using cleaner energy.

#### ► WATER CONSERVATION THROUGH RAINWATER HARVESTING SYSTEM:

As the SLBNSU campus is located in the South Delhi area, which has seen the maximum fall in groundwater levels, the University has committed itself to this effort to replenish the groundwater level by practising rainwater harvesting. This practice helps in the replenishment and recharge of the groundwater.

#### (E) WASTE MANAGEMENT PROCESSES

SLBNSU strives to have a minimal impact on the environment and is dedicated to reducing and managing the waste generated in the campus. The following specific procedures are being / will be undertaken to ensure SLBNSU's contribution to protecting the environment.

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#### **i. SOLID WASTE MANAGEMENT**

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

- \* Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).
- \* Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- \* Reduce solid waste by developing a technology-centric teaching and administrative model.
- Reduce the use of paper by supporting the digitization of attendance and internal assessment records.
- Reduce the requirement for printed books by updating the e-books and e-journals collection of the university library.
- \* Encourage the students and teachers to use emails for assignment submissions.
- Take initiatives to spread awareness amongst students about Food wastage and ways of minimizing it.
- \* Minimizing the use of packaged food.
- \* The habit of reusing and recycling non-biodegradable products.
- \* Organizing workshops for students on solid waste management.
- \* To take the initiative to utilize its waste paper/ examination answer sheets after making them reusable in the form of envelopes, file covers etc.

#### **ii. LIQUID WASTE MANAGEMENT**

\* The University has installed a 120 KLD FAB Type Sewage Treatment Plant in the University campus which treats more than 80% of the water supplied in the campus. Treated wastewater is being used for gardening and other horticulture purposes, flushing in toilets of academic buildings etc. and solid particles of the sewage, after treatment, filter pressed and used as compost for trees, plants and grasses in lawns.



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#### (F). AWARENESS INITIATIVES

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. Therefore, SLBNSU supports and encourages awareness campaigns, seminars, workshops, conferences and other interactive sessions to facilitate the effective implementation of the Green and Clean campus through optimum use of energy and to follow the various Environmental policies of the Govt. of India.

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#### **i. ENVIRONMENT-CENTRIC STUDENT SOCIETIES AND DEPARTMENT ACTIVITIES**

SLBNSU encourages all the departments and specific student societies like Green society, NSS, NCC and others to organize events, competitions and training sessions that will bring about positive environmental changes at the grassroots level. The university supports departments and student societies in moulding the students into active agents of environmental protection and conservation.

#### **ii. GREEN SOCIETY**

Institutional changes towards sustainability and eco-friendly practices have percolated down to the students which has led more and more students to join Green Society. Making society a compulsory one will provide it with a bigger platform to broadcast the institution's environmental values to raise awareness.

#### **G) CONDUCT GREEN AUDIT**

The SLBNSU aims to conduct a Green Audit of our university campus to assess our strengths and weaknesses to the furtherance of its goals of long-term sustainability. A green audit is a useful tool to determine how and where most energy water or resources are being used. The SLBNSU can then consider how to implement changes and make savings after determining the type and volume of waste. Also recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of eco-friendly practices on campus. Green auditing will also promote financial savings through the reduction of resource use. The university must evaluate its contributions toward a sustainable future.

#### (H) CONDUCT ENERGY AUDIT

An Energy Audit is to be conducted as and when required to further reduce its carbon footprints. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools, will identify wastage of energy and often reveals several different flaws that cause a loss of a significant amount of energy which the university will not be able to detect, as its only flaws often have easy and affordable solutions and provide significant savings.

#### (i) PLASTIC-FREE CAMPUS

SLBNSU has been observing most of its duties in terms of solid waste management since its inception. Given the Government of India's resolution to ban all single-use plastics due to their hazardous impact and pollution, the university administration strictly bans the use of single-use plastics in its premise to make it a "Plastic Free Campus".

#### (J) PROCUREMENT

SLBNSU adhere to the Standard sustainability criteria for tender evaluation or while procurement

through the Central Public Procurement Portal / the Government e-Market (GeM) or otherwise.

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#### (K) GREEN OFFICE (e-OFFICE)

Shri Lal Bahadur Shastri National Sanskrit University is keen to deploy and integrate mostly its administration work in a paperless mode university has implemented the SAMARTH platform for e-governance and e-office to make a paperless environment in its official work.

# VI. SLBNSU, WHILE DEVELOPING THE GREEN CAMPUS, STRICTLY ADHERING TO THE GUIDELINES BELOW: (A) FOR DEVELOPMENT OF EXISTING CAMPUS AS GREEN CAMPUS

- 1. The energy audit and water audit of the entire campus should be carried out through a registered certified professional and the baseline for the energy and water consumption should be defined.
- 2. Energy efficient measures including energy efficient street lighting system with proper control, low energy fixtures, energy efficient pumping system, energy efficient motors and other equipment, sensors for lighting, use of energy star rating equipment, improvement of power factor, use of variable frequency drive and other energy-efficient technologies should be adopted and reflected in the proposed master plan.
- iii. Utilization of renewable energy systems such as solar water heaters, solar air conditioning, solar dryers, solar cookers, solar lanterns, solar pumps, solar traffic signals, battery-operated vehicles, hybrid systems etc. should be explored.
- iv. Solar cooking systems must be utilized for hostels/canteen etc. All houses, hostels, and kitchens should have solar water heaters (including multi-storied buildings).
- v. The possibility of installing Solar Trees preferably grid-connected systems should be explored.
- vi. A master plan for the entire campus should be prepared keeping in view the overall reduction in fossil fuel-based energy by 25% within next 5 years by utilizing renewable energy applications and taking suitable measures for energy conservation and energy efficiency.
- vii. The master plan should be site-specific and should have minimum 5 numbers of implementable detailed project reports, as per guidelines of MNRE and BEE under various schemes. An audit report should be prepared and submitted along with the Master Plan.
- viii. An awareness/training workshop should be organized on the campus regarding renewable energy applications and taking suitable measures for energy conservation and energy efficiency.
- ix. Suitable architectural retrofit options for building envelopes (floor, roof, walls etc.) and energyefficient glasses for windows should be explored and included in the report.

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- x. The possibility of redesigning of exterior surfaces of the buildings with energy-efficient materials may be explored.
- xi. Any other innovative actions/points to be explored for making the existing green campus.

#### (B) FOR DEVELOPMENT OF NEW CAMPUS AS GREEN CAMPUS

- i. Simply making green buildings would not create a green campus; however, it should be sustainable also. A green campus should follow the optimum path for:
- Land use vis-à-vis population density
- Vertical or horizontal growth
- Infrastructure including pitched/ concrete roads
- Transport (more walkability & less use of vehicles)
- Renewable energy use and Energy conservation,
- Waste management and water conservation

#### **Policy Making Committee**

For effective implementation of the Green Campus Policy, there shall be a Green Campus Policy Committee (GCPC). The constitution of the same shall be as follows:

- a) Registrar
- b) Two Deans
- c) Hostel warden
- d) DR (A/cs)
- e) University Engineer
- f) System Administrator
- g) Library-in-Charge.
- h) NSS Coordinator
- i) AR (Admn.)
- j) Assistant Engineer Convenor



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