



# UTTARANCHAL UNIVERSITY

Arcadia Grant, P.O. Chandanwari, Premnagar, Dehradun,  
Uttarakhand-248007, INDIA

Policy

on

## Green & Clean Campus





**UTTARANCHAL UNIVERSITY**  
(Established vide Uttaranchal University Act, 2012)  
(Uttarakhand Act No. 11 of 2013)  
Arcadia Grant, P.O. Chandanwari, Premnagar,  
Dehradun, Uttarakhand

**UTTARANCHAL UNIVERSITY**  
**POLICY FOR CLEAN & GREEN CAMPUS**

**INTRODUCTION**

The importance of Green cover and its relevance in the present day context is a subject that is pertinent and crucial for sustainable development especially in the context of urbanization. The Urban Green Guidelines 2014 Town and Country Planning Organization, Government of Indian Ministry of Urban Development lays down the guidelines and requisite greening of urban areas in an effort to minimize and mitigate the effects of concretization of the otherwise green areas including forests and agricultural lands.

Buildings have extensive direct and indirect impacts on the environment. During their construction, occupancy, renovation, repurposing, and demolition, buildings use energy, water, and raw materials, generate waste, and emit potentially harmful atmospheric emissions. These facts have prompted the creation of green building standards, certifications, and rating systems aimed at mitigating the impact of buildings on the natural environment through sustainable design.

Development and sustenance of green cover should go hand in glove and one should not be compromised for the other. The campus green cover drive across universities globally is an initiative to sensitize the younger generations on the necessity of a compensator green cover and plantations. AICTE has also called for a Clean and Smart Campus initiative across all the universities in India.

**VISION**

Institutional implementation of the 4r's (Reuse, Reduce, Recycle & Restore) of protection, Conservation & Preservation towards an energy efficient & environmentally sustainable clean & green campus.

**MISSION**

Enforceability of the environmentally sustainable initiatives through a well-planned environmental management system integrating the guidelines for energy conservation,



renewable energy generation, water management & conservation, waste management of solid, liquid, biomedical Electronic & Bio-medical wastes

## **OBJECTIVE**

The need for institutional implementation of the guidelines for environmental sustainability including renewable energy generation and conservation are recognized and adopted for the effective, efficient and economical development of an energy efficient green campus at Uttarakhand University and in this direction the following objectives are identified for implementation.

1. Adopt and adapt the policies for conservation of energy and protection of environment
2. Recognize the need for waste management implementation
3. Create economically viable
4. Educate through systematic environmental management approach
5. Improve environmental standards
6. Benchmark for environmental protection initiatives
7. Reduce in resource use
8. Develop ownership, personal and social responsibility for the university campus and its environment
9. Enhance university profile
10. Develop environmental ethics and value systems

## **SCOPE**

Environmentally sustainable practices have a tremendous scope for implementation in the sprawling Uttarakhand University campus of over 70 acres having over seven functional academic departments, a center for research and development, research laboratories for science, applied sciences and pharmacy, a library with extensive e-resources in its information technology center and an integrated administrative building all ergonomically built with efficient cross ventilation and aeration in the fascinating geological setting flanked by NH-72 and a broad serene river bed surrounded by pine trees lending an aesthetic, pristine and wholesome ambience to the campus. The University houses hostels for the students with in-house mess facilities and an exclusive eatery besides a well-equipped guest house & gymnasium and a world-class auditorium which provide resources for management of the environment through the established norms and guidelines.

The energy efficiency initiatives and environmentally sustainable practices have a role to play in the reuse of the resources from the wastes generated in various forms through solid waste management, liquid waste management, e-waste management, bio-waste management protocols which are integrated in the comprehensive policy for green and clean campus.



Uttaranchal University adheres to the reuse, recycling, reduce and restoration practices for safe and economical disposal of the wastes generated from various resources through an efficient conservation, preservation and regeneration procedure as per established governmental norms and guidelines.

## **APPLICABILITY**

The policy is applicable for implementation for all the stakeholders of the Uttaranchal University including the faculty, academic and non-academic, students and visitors.

## **GUIDELINES**

### **1. Energy Compliance –**

- a. Install operable solar power generation units
- b. Create a solar PV electrical generation plant
- c. Use LED lamps and solar lights
- d. Use energy saving equipment for generators and air-conditioners
- e. Installation of energy efficient equipment in the research laboratories
- f. Installation of lower wattage ceiling fans
- g. Use of non-fuel vehicles
- h. Use of electric and battery operated vehicles
- i. Prohibited use of diesel and petrol vehicles on campus
- j. Generate refurbished electronic goods for increased efficiency

### **2. Water Conservation-**

- a. Install efficient fixtures for water faucets and fixtures for low water consumption
- b. Install sensor based water outlets urinals and taps for minimized water consumption
- c. Install low flow flush toilets with reused water
- d. Install water harvesting and recycling units with treatment plants
- e. Install recycling units for all outlets so as to reuse the water for plantation and purpose of human non-consumption
- f. Install rain water harvesting plants collecting water from rain and outlets, ground recharge and surface recharge ensuring open areas for water harvest, roof top recharge and harvesting pond recharge

### **3. Green Initiatives –**

- a. Implement 'greening of urban areas and landscaping' as per the Ministry of Urban Affairs and Employment guidelines
- b. Follow sustainable development norms and guidelines
- c. Follow the international Green Construction policy
- d. Increase the campus green cover through plantation drives of perennial trees
- e. Create aesthetic environment through greenhouse
- f. Create environmental sustainability through bio-initiatives such as



- i. Landscaping increasing green cover
  - ii. Indigenous plant garden
  - iii. Con-stellar landscape
  - iv. Terrace Gardening
  - v. Medicinal plant gardens
  - vi. Hydroponics
  - vii. Horticulture
  - viii. Urban forestry
  - ix. Increase the native species for endurance and conformity of growth hence increasing campus green cover manifold
- 4. Waste management- Create a provision for the functionality of**
- i. Solid Waste Management (SWM) through bio-composting
  - ii. Bio-waste through vermi-composting
  - iii. Electronic waste through the recycling as per the E-waste (Management) Rules, 2016 and policies of the EPR (Extended Producer Responsibility)
  - iv. Bio-medical waste management as per the guidelines of the Cartagena Protocol
  - v. Reuse of paper through recycling
5. Concrete Green Buildings- Follow the ratio of the concrete structures and their sustainability as per environmental standards and the analysis of the green quotient.
6. Native Seed distribution to farmers or growers as a CSR initiative of the university

## **RESPONSIBILTiy**

The implementation and enforceability of the provisions of the Green and Clean Campus policy of Uttaranchal University pertaining to the environmental sustainability of the existing resources, new projects, maintenance and replenishment or replacement is the responsibility of the Director- Planning and Development & Administration. The decisions are supplemented by the annual environmental audit report provided by the environmental auditor of Uttaranchal University.

