



Centurion
UNIVERSITY
*Shaping Lives...
Empowering Communities...*

GREEN Policy

Centurion University of Technology and Management



GREEN Policy

Need of Green Policy:

The rising alarm regarding present climatic changes has questioned the sustainability issues of human race on the planet. Accordingly, the United Nations have set 17 sustainable development goals. However, the goals could be achieved only by the practice at institutional level with appropriate policy and its implementation. In particular, the universities have very important role to play because they can mould the young minds for green environment through proper educational model besides management of green campus. The success of SDG no. 13 (Climate action), 14(Life below water), and 15(Life on land) calls for the green management of the institutions and appropriate education. Thus, a green policy and its implementation through management and education is of utmost importance.

Centurion University of Technology and Management (CUTM) Stride towards green management of the university and education:

CUTM is committed to bring the environmental sustainability through the green policy and its implementation. The pathway to the solution for the complexity, and urgency of many environmental problems have been thoughtfully laid down by CUTM through their GREEN policy, education, implementation and management. The green policy of CUTM addresses the following agenda for Green and sustainable campus:

1. Green landscapes
2. Green transport measures
3. Water Management
4. Waste Management
5. Energy conservation and renewable sources
6. Ban on Single-use Plastic
7. E-waste Management

1. Green Landscapes:

- (i) The university is committed to convert all un-utilized land with the green landscapes.
- (ii) The biodiversity should be maintained by having trees, shrubs, herbs, hydrophytes, climbers, epiphytes, grass, gymnosperm, pteridophytes, bryophytes, mushrooms, and lichens.
- (iii) The green landscape should attract the fauna through natural as well as breeding procedures.

- (iv) The flora and fauna biodiversity should provide a research and practice base for skill integrated higher education for sustainable development.
- (v) The flora and fauna should lead to environment friendly start-ups involving local communities.

Implementation:

- (i) Convert the undulating rocky patch of land into a water body for pisciculture, migratory bird rookery, a water fall, associated with a garden for research on cactus, bee and butterfly.
- (ii) Provide training for staff to ensure contractors are able to meet the aims of the green policy and sustainable practices.
- (iii) Ensure all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- (iv) Integrate the green measures in the higher education curriculum that eventually lead to green research and start-ups. Green audit should be done through students' projects.

Management:

- (i) Design mechanisms for monitoring the biodiversity.
- (ii) Actively encourage student and faculty-led monitoring projects.
- (iii) Review and update the biodiversity actions through green audit every year.

2. Green transport measures:

- (i) The university should encourage use of either renewable sources or battery-operated vehicles within the campus to reduce the carbon foot-print by footprint by 43% by 2027.
- (ii) The ply of university vehicles using conventional non-renewable energy sources should be minimized within the boundaries of the campus.
- (iii) The green transport measures should form a part of higher education through research, practice and skill integration to higher education, with a view to manufacturing electrical vehicles (EVs).

Implementation:

- (i) Provide training to the staff for the operation and maintenance of renewable sources or battery-operated vehicles.
- (ii) Integrate the training in higher education curriculum.
- (iii) Plan the campus ground for appropriate parking area for vehicles using conventional non-renewable energy sources that reduce the carbon emission within the campus.
- (iv) Provide green pedestrian pathways from parking area to the various area of the campus for the convenience of students and people working in the campus.
- (v) Solar operated battery charging system for electrical vehicles operating inside the campus.

Management:

- (i) Design mechanisms for maintenance of renewable sources or battery-operated vehicles.
- (ii) Actively encourage student and faculty-led management and research projects.
- (iii) Review and update the green actions through environment audit every year.

3. Water Management:

- (i) The university should recycle at least 90% of the waste water.
- (ii) The rain water harvesting systems should be integrated with the architecture of the university buildings and green landscaping.
- (iii) The green landscape must include water bodies for biodiversity.
- (iv) The awareness and practice of water management should be integrated in the higher education through research, practice and skill training.

Implementation:

- (i) Maintenance of water bodies and STP.
- (ii) Provide training to the staff for the operation and maintenance of water management systems.
- (iii) Ensure all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- (iv) Integrate the water management programs in higher education curriculum with relevant training to create awareness of sustainable environment and initiate start-ups for optimal water use.
- (v) Satellite image processing for assessing the ground water potential and for planning its optimal exploration.

Management:

- (i) Design mechanisms for monitoring and maintenance of water management system.
- (ii) Actively encourage student and faculty-led management and research projects.
- (iii) Review and update the actions through environment audit every year.

4. Waste Management:

- (i) The CUTM aims at 'Zero-Waste' through 'Reduce, Recycle and Reuse' approach.
- (ii) The university should remain compliant with all relevant waste legislation.
- (iii) Set specific objectives and targets in relation to minimizing waste, improving recycling rates and reducing disposal to landfill.
- (iv) The awareness and practice of waste management should be integrated in the higher education through research, practice and skill training.

Implementation:

- (i) Provide training to the staff for the operation and maintenance of waste management systems.
- (ii) Ensure all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- (iii) Integrate the waste management programs in higher education curriculum with

relevant training to create awareness of sustainable environment and create start-ups for 'waste-to-wealth' enterprises.

Management:

- (i) Design mechanisms for monitoring and maintenance of waste management system.
- (ii) Actively encourage student and faculty-led management and research projects.
- (iii) Review and update the actions through environment audit every year.

5. Energy conservation and renewable sources:

- (i) Reduce the university's carbon footprint by 43% by 2027.
- (ii) Use of renewable energy sources like solar energy.
- (iii) Set targets for reducing energy consumption through proper energy conservation measures.
- (iv) Energy generation through waste management.
- (v) Integration of awareness and practice of energy conservation and renewable energy in the higher education through research, practice and skill training.

Implementation:

- (i) Provide training to the staff for the operation and maintenance of installed renewable and non-renewable energy systems.
- (ii) Ensure all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- (iii) Maintain awareness of emerging low carbon/alternative technologies and explore potential for implementation through students' projects including the area of energy audit and use of renewable energy.
- (iv) Integrate the energy conservation, renewable energy and energy generation from waste programs in higher education curriculum with relevant training to create awareness of sustainable environment and economy.

Management:

- (i) Design mechanisms for monitoring, maintenance and conservation of renewable and non-renewable energy sources.
- (ii) Actively encourage student and faculty-led management and research projects.
- (iii) Facilitate collaboration with research and commercial innovation organizations in relation to energy efficiency projects.
- (iv) Review and update the actions through energy audit every year.

6. Ban on Single-use Plastic:

- (i) To abide by the Plastic Waste Management (PWM) Rules of India for efficient management of plastic waste.
- (ii) Prohibition of single-use plastic inside the campus for eco-friendly campus.
- (iii) Encourage the use of paper bags and cloth bags.
- (iv) Set specific objectives and targets in relation to minimizing plastic waste, improving plastic recycling rates and reducing disposal to landfill.
- (v) The awareness and practice of plastic waste management should be integrated in the higher education through research, practice and skill training.

Implementation:

- (i) Ensure that all commercial entities inside the campus strictly abide by the rule of ban on plastic.
- (ii) Provide training to the staff for the operation and maintenance of plastic waste management systems and rules.
- (iii) Integrate the waste management programs in higher education curriculum with relevant training to create awareness of sustainable environment.
- (iv) Student projects and start-ups using waste plastics.

Management:

- (i) Design mechanisms for monitoring of plastic waste management system and rules.
- (ii) Actively encourage student and faculty-led management and research projects.
- (iii) Encourage and support to student led awareness activities with local community.
- (iv) Review and update the actions through environment audit every year.

7. E-waste Management:

- (i) Being an ICT enabled University, CUTM is prone to generate E-waste.
- (ii) The university should remain compliant with all relevant E-waste legislation.
- (iii) Set specific objectives and targets in relation to minimizing waste, improving recycling rates.
- (iv) The awareness and practice of E-waste management should be integrated in the higher education through research, practice and skill training.

Implementation:

- (i) Provide training to the staff for the operation and maintenance of E-waste management systems.
- (ii) Ensure all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- (iii) E-waste disposal should be through authorized agencies only.
- (iv) Integrate the E-waste management programs in the curriculum with relevant training to create awareness of sustainable environment and create start-ups for optimal use of E-spares.

Management:

- (i) Design mechanisms for monitoring and maintenance of E-waste management system.
- (ii) Actively encourage student and faculty-led management and research projects on E-waste.
- (iii) Review and update the actions through E-waste audit every year.

With the implementation of these policies with rigorous practice, we aim at achieving the Green campus initiative by 2027.