



**Centurion**  
**UNIVERSITY**

*Shaping Lives...*

*Empowering Communities...*

# **SUSTAINABILITY POLICY 2024**



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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT  
ODISHA



# FOREWORD



The Centurion University of Technology and Management, Odisha (CUTM) in aligning itself with the United Nations Sustainable Development Goals (SDGs) has specifically focused on 7 SDGs and embedded them in everything from its strategy, governance, institutional management and outcomes. The promoters, faculty and staff are fully committed to the University's tagline: Shaping Lives. Empowering Communities. This theme is underpinned by a value system of Inclusivity, Integrity, Equity, Respect and Sustainability in everything we do.

The University continually strives to create social impact by being a best-in-class human resource development hub that builds employable, enterprising and society-centric youth through industry-relevant education, skill development, new ventures, production, and technology development. Since its inception in 2005 and subsequent recognition as a University in 2010, Centurion has created a unique environment that ensures a tailored learning and employability path for youth in some of the poorest and underserved geographies in Odisha and Andhra Pradesh.

Students with active support from teachers are required to reach out to local communities and put into practice the learning, knowledge and skills acquired in the University campuses to identify and address day-to-day problems of communities within which it exists. This program additionally helps students to develop a sense of responsibility for community, engagement through communication, strategic planning, innovative approach for problem-solving, team spirit, etc, thus building confidence to be a productive citizen of the World.

All staff and students engaged in university activities have a duty to uphold the Policy.

**Prof (Dr) Supriya Pattanayak**  
Vice-chancellor  
Centurion University of Technology and Management

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# **Sustainability Policy**

## **1. Introduction**

Building a real learning environment for staff and students, we are setting the bar high by developing a sustainable campus that lessens our impact on the environment. A sustainable campus takes into account everything you encounter, from the food in the cafes to the lighting in the structures and the way you arrive at class each morning.

The rising alarm regarding present climatic changes has questioned the sustainability issues of the 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 an institutional level with appropriate policy and its implementation. In particular, universities have a very important role to play because they can mold young minds for a green environment through proper educational models besides the management of green campuses. 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.

Environmental sustainability does belong to any one department at CUTM. All the students, teachers, and local communities lead on this work. Hence, there are initiatives, projects, research, and commitments right across our Campuses, Departments, and Facilities. Every aspect of our teaching, research, and operational activities is dependent on energy use. We know that the use of electricity, gas, steam, and fuel has an effect on the local and global environment, which is why we are committed to reducing our energy consumption across all sites. Since its inception, the University has been continuously working to implement actions to reduce our energy consumption and carbon emissions.

## **2. Objectives**

CUTM is committed to bring environmental sustainability through the implementation of its Environmental sustainability policy. 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:

- I. Green landscapes
- II. Green transport measures
- III. Water Management
- IV. Waste Management
- V. Energy conservation and renewable sources
- VI. Ban on Single-use Plastic
- VII. E-waste Management

#### **I. Green Landscapes:**

- The university is committed to converting all unutilized land into green landscapes.
- The biodiversity should be maintained by having trees, shrubs, herbs, hydrophytes, climbers, epiphytes, grass, gymnosperm, pteridophytes, bryophytes, mushrooms, and lichens.
- The green landscape should attract the fauna through natural as well as breeding procedures.
- The flora and fauna biodiversity should provide a research and practice base for skill-integrated higher education for sustainable development.
- The flora and fauna should lead to environment-friendly start-ups involving local communities.

#### **➤ Implementation:**

- The undulating rocky patch of land was converted into a water body for pisciculture, migratory bird rookery, a waterfall, associated with a garden for research on cactus, bee and butterfly.
- Tree plantation drive was conducted periodically to enhance the tree cover on the campus and to sensitize the student towards the importance of trees. The planting of the trees helps to maintain a clear eco-friendly environment reducing pollution and improving the green ambience.
- The Guests visiting the University receive a token of appreciation from



the university, potted plants, encouraging sustainable and eco-friendly practices in the campus.

- Staff training is provided to ensure contractors are able to meet the aims of the green policy and sustainable practices.
- It is ensured that all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- The green measures are integrated in the higher education curriculum that eventually led to green research and start-ups. Green audit should be done through students' projects.

➤ **Management:**

- Mechanisms for monitoring biodiversity are designed.
- Student and faculty-led monitoring projects are actively encouraged.
- The biodiversity actions through green audits are reviewed and updated every year.

## **II. Green transport measures:**

- The university should encourage use of either renewable sources or battery- operated vehicles within the campus to reduce the carbon footprint by footprint by 43% by 2027.
- The ply of university vehicles using conventional non-renewable energy sources should be minimized within the boundaries of the campus.
- 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:**

- Training to the staff is provided for the operation and maintenance of renewable sources or battery-operated vehicles.
- The training is integrated into the higher education curriculum.
- The campus ground is planned for an appropriate parking area for vehicles using conventional non-renewable energy sources that reduce carbon emissions within the campus.

- Green pedestrian pathways are provided from the parking area to the various areas of the campus for the convenience of students and people working in the campus.
  - Solar-operated battery charging system for electrical vehicles operating inside the campus.
- **Management:**
- Design mechanisms present for maintenance of renewable sources or battery- operated vehicles.
  - Student and faculty-led management and research projects are actively encouraged.
  - The green actions through environment audit green audit are reviewed and updated every year.

### **III. Water Management:**

- The university should recycle at least 90% of the waste water.
  - The rain water harvesting systems should be integrated with the architecture of the university buildings and green landscaping.
  - The green landscape must include water bodies for biodiversity.
  - The awareness and practice of water management should be integrated in higher education through research, practice and skill training.
- **Implementation:**
- Water bodies and STP are maintained.
  - Training is provided to the staff for the operation and maintenance of water management systems.
  - It is ensured that all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
  - The water management programs are integrated in higher education curriculum with relevant training to create awareness of a sustainable environment and initiate start-ups for optimal water use.

➤ **Management:**

- Mechanisms are designed for monitoring and maintenance of water management systems.
- Student and faculty-led management and research projects are actively encouraged.
- The actions through environment audit are reviewed and updated every year.

**IV. Recycling and Waste Management:**

Centurion University is committed to reducing its environmental impacts through effective waste management and aims to divert at least 90% of waste from landfill.

**Definitions:**

**Waste:** Waste includes any substance or object which the holder discards or intends or is required to discard and any substance which constitutes a scrap material, an effluent or other unwanted surplus arising from the application of any process or any substance or article which requires to be disposed of which has been broken, worn out, contaminated or otherwise spoiled as per the Environmental Protection Act 1990 and amendments.

**General waste:** A form of controlled waste, comprising all waste from the university the exception of fiber, co-mingled recyclables, food waste and hazardous waste.

**Fibre waste:** Card and paper

**Co-mingled waste:** Cans, Glass and Plastic. Note the absence of food as this will contaminate recyclables

**Hazardous Waste:** It includes waste that could, in certain circumstances, be harmful to human health or the environment in the short or long term due to its physical, chemical or biological properties. Batteries, fluorescent tubes, photographic chemicals, paint, waste oils, solvents, acids, alkaline solutions, pesticides and electrical equipment are all hazardous wastes.

- The CUTM aims at 'Zero-Waste' through 'Reduce, Recycle and Reuse' approach.
- The university should remain compliant with all relevant waste

legislation.

- Set specific objectives and targets in relation to minimizing waste, improving recycling rates and reducing disposal to landfill.
- The awareness and practice of waste management should be integrated in higher education through research, practice and skill training.

➤ **Implementation:**

- Training is provided to the staff for the operation and maintenance of waste management systems.
- It is ensured that all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- The waste management programs are integrated in higher education curriculum relevant training to create awareness of a sustainable environment and create start-ups for 'waste-to-wealth' enterprises.

➤ **Management:**

- Mechanisms are designed for monitoring and maintenance of waste management systems.
- Student and faculty-led management and research projects are actively encouraged.
- Actions through an environment audit are reviewed and updated every year.

**V. Energy conservation and renewable sources:**

The University is committed to being as efficient as possible in its use of energy and resources, in order to minimize both its impact on the environment and its expenditure on energy. The Energy Policy sets out the University's commitment to reducing its energy and carbon emissions. The University aims to:

- Monitor and measure energy use in all parts of the University, quantifying consumption and identifying significant and abnormal energy use;
- Set targets for reducing energy consumption and review annually as part of the carbon management plan;

- Reduce energy consumption through a targeted plan of work designed to minimize usage and improve efficiency;
- Report on energy use, costs, and associated emissions to Senior Management;
- Communicate to all staff and students the heating and cooling policy and how to reduce energy consumption and support them to do this through the Green Impact program;
- Maintain awareness of emerging low carbon/alternative technologies and explore the potential for implementation;
- Collaborate with research and commercial innovation organizations in relation to energy efficiency projects;
- Consider the energy implications of all major campus developments;
- Review the Energy Policy annually measuring progress against the targets and revising targets accordingly.

➤ **Implementation:**

- Training is provided to the staff for the operation and maintenance of installed renewable and non-renewable energy systems.
- It is ensured that all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- 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.
- 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:**

- Mechanisms are designed for monitoring, maintenance and conservation of renewable and non-renewable energy sources.
- Student and faculty-led management and research projects are actively encouraged.

- Collaboration is facilitated with research and commercial innovation organizations in relation to energy efficiency projects.
- The actions through energy audits are reviewed and updated every year.

## **VI. Plastic waste reduction:**

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

### ➤ **Implementation**

- It is ensured that all commercial entities inside the campus strictly abide by the rule of the ban on use of single-use plastics.
- Installing necessary alternative facilities like water units to avoid the use of plastic water bottles and encouraging the use of alternative solutions like cloth bags, paper bags, etc, instead of plastic bottles, bags, cover, and other goods in University campus.
- Encouraging students to sensitize their respective households about the harmful effects of plastics and make their households 'plastic-free' .
- The institute uses wood and metal furniture and avoids plastic furniture like chair tables etc..
- Training is provided to the staff for the operation and maintenance of plastic waste management systems and rules.
- The waste management programs are integrated in higher education curriculum with relevant training to create awareness of a sustainable environment.
- Student projects and start-ups using waste plastics are implemented with awareness to 3R (Reduce, Reuse, Recycle) rules for plastic.

➤ **Management:**

- Mechanisms are designed for monitoring of plastic waste management systems and rules.
- Student and faculty-led management and research projects are actively encouraged.
- Student-led awareness activities with the local community are encouraged and supported.
- The actions through the environment audit are reviewed and updated every year.

**VII. E-waste Management:**

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

➤ **Implementation:**

- Training is provided to the staff for the operation and maintenance of E-waste management systems.
- It is ensured all contractors are provided with a copy of the CUTM Design Standards which refer to the green policy.
- E-waste disposal is done through authorized agencies only.
- The E-waste management programs are integrated in the curriculum with relevant training to create awareness of a sustainable environment and create start-ups for optimal use of E-spares.

➤ **Management:**

- Mechanisms are designed for monitoring and maintenance of E-waste management systems.
- Student and faculty-led management and research projects on E-waste are actively encouraged.
- The actions through E-waste audits are reviewed and updated every year.

With the implementation of these policies with rigorous practice, the University aims to achieve the campus initiative by 2027.

### **3. Approval and Review:**

Policy for Sustainability is reviewed as and when required. The Registrar of the University is the custodian of the policy.



**Dr. Anita Patra**  
**Registrar**  
**Centurion University of Technology and Management**













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## **CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT, ODISHA**

### **CAMPUSES:**

**Paralakhemundi Campus**

Village Alluri Nagar  
P.O. – R Sitapur, Via- Uppalada  
Paralakhemundi, Dist.- Gajapati  
Odisha, India. PIN– 761211

**Bhubaneswar Campus**

Ramchandrapur  
P.O. – Jatni, Bhubaneswar  
Dist.- Khurda, Odisha,  
India, PIN– 752050

**Balangir Campus**

Behind BSNL Office  
IDCO land, Rajib Nagar  
Dist.- Balangir, Odisha  
India, PIN-767001

**Rayagada Campus**

IDCO Industrial Area  
Pitamahal, Rayagada  
Dist.-Rayagada, Odisha  
India, PIN-765001

**Balasore Campus**

Gopalpur,  
P.O.-Balasore  
Dist.-Balasore, Odisha  
India, PIN-756044

**Chatrapur Campus**

Ramchandrapur,  
Kaliabali Chhak,  
P.O-Chatrapur, Dist.-Ganjam  
Odisha, India, PIN-761020