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

SUSTAINABILITY POLICY

2017

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CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT
ODISHA

FOREWORD

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 it in everything from its strategy, governance, institutional management and outcomes. The promoters, faculty and staff are fully committed to the University's tag line: 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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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 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 mold 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.

Environmental sustainability does belong to any one department at CUTM. All the students, teachers and local communities leads 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 are 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 the inception the University has been continuously working to implement actions to reduce our energy consumption and carbon emissions.

Objectives

CUTM is committed to bring the 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:

A. Green landscapes
B. Green transport measures
C. Water Management
D. Waste Management
E. Energy conservation and renewable sources
F. Ban on Single-use Plastic
G. E-waste Management

A. Green Landscapes:

1. The university is committed to convert all un-utilized land with the green landscapes.
2. The biodiversity should be maintained by having trees, shrubs, herbs, hydrophytes, climbers, epiphytes, grass, gymnosperm, pteridophytes, bryophytes, mushrooms, and lichens.
3. The green landscape should attract the fauna through natural as well as breeding procedures.
4. The flora and fauna biodiversity should provide a research and practice base for skill integrated higher education for sustainable development.
5. 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 water fall, associated with a garden for research on cactus, bee and butterfly.
- 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 lead to green research and start-ups. Green audit should be done through students' projects.

Management:

1. Mechanisms for monitoring the biodiversity is designed.
2. Student and faculty-led monitoring projects are actively encouraged.
3. The biodiversity actions through green audit are reviewed and updated every year.

B. Green transport measures:

1. The university should encourage use of either renewable sources or battery-operated vehicles with within the campus to reduce the carbon foot-print by footprint by 43% by 2027.
2. The ply of university vehicles using conventional non-renewable energy sources should be minimized within the boundaries of the campus.
3. 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 renewablesources or battery-operated vehicles.
- The training is integrated in higher education curriculum.
- The campus ground is planned for appropriate parking area for vehicles using conventional non-renewable energy sources that reduce the carbon emission within the campus.
- Green pedestrian pathways provided from parking area to the various area of thecampus for the convenience of students and people working in the campus.
- Solar operated battery charging system for electrical vehicles operating inside the campus.

Management:

1. Design mechanisms present for maintenance of renewable sources or battery-operatedvehicles.
2. Student and faculty-led management and research projects are actively encouraged.
3. The green actions through environment audit green audit are reviewed and updated every year.

C. Water Management:

1. The university should recycle at least 90% of the waste water.
2. The rain water harvesting systems should be integrated with the architecture of the university buildings and green landscaping.
3. The green landscape must include water bodies for biodiversity.
4. The awareness and practice of water management should be integrated in the 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 sustainable environment and initiate start-ups for optimal water use.

Management:

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

D. 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 of all waste from the university the exception of fibre, 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.

1. The CUTM aims at 'Zero-Waste' through 'Reduce, Recycle and Reuse' approach.
2. The university should remain compliant with all relevant waste legislation.
3. Set specific objectives and targets in relation to minimizing waste, improving recycling rates and reducing disposal to landfill.
4. The awareness and practice of waste management should be integrated in the 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 sustainable environment and create start-ups for 'waste-to-wealth' enterprises.

Management:
1. Mechanisms are designed for monitoring and maintenance of waste management system.
2. Student and faculty-led management and research projects are actively encouraged.
3. Actions through environment audit reviewed and updated every year.

E. Energy conservation and renewable sources:

The University is committed to being as efficient as possible in its use of energy and resources, inorder 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:

1. Monitor and measure energy use in all parts of the University, quantifying consumption andidentifying significant and abnormal energy use;
2. Set targets for reducing energy consumption and review annually as part of the carbon managementplan;
3. Reduce energy consumption through a targeted plan of work designed to minimise usage andimprove efficiency;
4. Report on energy use, costs and associated emissions to Senior Management;
5. Communicate to all staff and students the heating and cooling policy and how to reduce energyconsumption and support them to do this through the Green Impact programme;
6. Maintain awareness of emerging low carbon/alternative technologies and explore potential forimplementation;
7. Collaborate with research and commercial innovation organizations in relation to energy efficiencyprojects;
8. Consider the energy implications of all major campus developments;
9. Review the Energy Policy annually measuring progress against the targets and revise 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 Standardswhich 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:

1. Mechanisms are designed for monitoring, maintenance and conservation of renewableand non-renewable energy sources.
2. Student and faculty-led management and research projects are actively encouraged.
3. Collaboration is facilitated with research and commercial innovation organizations inrelation to energy efficiency projects.
4. The actions through energy audit reviewed and updated every year.

F. Ban on Single-use Plastic:

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

Implementation
- It is ensured that that all commercial entities inside the campus strictly abide by the rule of ban on plastic.
- Training is provided to the staff for the operation and maintenance of plastic wastemanagement systems and rules.
- The waste management programs are integrated in higher education curriculum with relevant training to create awareness of sustainable environment.
- Student projects and start-ups using waste plastics are implemented.

Management:
1. Mechanisms are designed for monitoring of plastic waste management system andrules.
2. Student and faculty-led management and research projects are actively encouraged.
3. Student led awareness activities with local community are encouraged and supported.
4. The actions through environment audit reviewed and updated every year.

G. E-waste Management:

1. Being an ICT enabled University, CUTM is prone to generate E-waste.
2. The university should remain compliant with all relevant E-waste legislation.
3. Set specific objectives and targets in relation to minimizing waste, improvingrecycling rates.
4. The awareness and practice of E-waste management should be integrated in thehigher 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 Standardswhich 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 sustainable environment and create start-ups foroptimal use of E-spares.

Management:

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

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

Approval and Review:

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

Anita Patra

REGISTRAR
Centurion University of
Technology & Management
ODISHA

Dr. Anita Patra
Registrar
Centurion University of Technology and Management

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CAMPUSES:

Paralakhemundi Campus	**Bhubaneswar Campus**	**Balangir Campus**	**Rayagada Campus**	**Balasore Campus**	**Chatrapur Campus**
Village Alluri Nagar	Ramchandrapur	Behind BSNL Office	IDCO Industrial Area	Gopalpur,	Ramchandrapur,
P.O. – R Sitapur, Via- Uppalada	P.O. – Jatni, Bhubaneswar	IDCO land, Rajib Nagar	Pitamahal, Rayagada	P.O.-Balasore	Kaliabali Chhak,
Paralakhemundi, Dist.- Gajapati	Dist.- Khurda, Odisha,	Dist.- Balangir, Odisha	Dist.-Rayagada, Odisha	Dist.-Balasore, Odisha	P.O-Chatrapur, Dist.-Ganjam
Odisha, India. PIN– 761211	India, PIN– 752050	India, PIN-767001	India, PIN-765001	India, PIN-756044	Odisha, India, PIN-761020