



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

SDG 13 | Climate Action

SDG 13 REPORT 2021



OUTLINE

I.	Targets	1
II.	The Context of Centurion University	2
1.	Academic Engagements	
1.1.	Courses	3
2.	Reduce Recycle Reuse	
2.1.	Food Waste	4
2.2.	Plastic Free Campus	5
3.	Being Eco-friendly	
3.1.	Waste to Wealth	6
4.	Green Efforts for a Carbon Neutral Campus	
4.1.	Responsible Consumption	7
5.	Increasing Water Use Efficiency	
5.1.	Rain Water Harvesting	8
6.	Striving for Sustainable Farming Practices	
6.1.	Organic Farming	9
6.2.	Vermicomposting	10
6.3.	Production of Bio Fertilisers	11
7.	Promoting Vegetarianism	
7.1.	One of the excerpts of Discover Yourself	12



I. Targets



Organic Farming

Centurion University strives for sustainable farming practices which include organic farming it produces organic "Banana, Mushroom and Dragon Fruit". The University targets to produce Tomato, Cherry Tomato and Onions by the year 2023.



Food Wastage

Centurion University endeavours to abstain from wastage of food on campus. However, being a semi-residential University with centralised and decentralised eateries there is always certain amount of food wastage on campus. In the year 2021 there was a total wastage of 622 kg of food wastage. It has reduced by 27.8% in the year 2022. The University targets to further slash it down by 30% by 2023.



Striving for Carbon Neutrality

Centurion University makes efforts for being Carbon neutral. It has slashed its expenditure on air fair from 33 lakhs to 5 lakhs in 2021. The University has learned the usage of the online medium for conducting meetings and makes only urgent travels. The University targets to keep the air fair expenditure to 14 lakhs.

R Reduce, Reuse and Recycle

Centurion University strives to Reuse and Recycle waste adhering to different guidelines. In adherence to Plastic Waste Management Rules, the University recycles all of its plastic waste. It uses all throwaway plastics in infrastructure materials. Plastics are being used as an ingredient to manufacture paver blocks. Currently, University manufactures 500 paver blocks in a day and it targets to increase its capacity to 750 by 2023.



Rain Water Harvesting

Centurion University makes effort to increase water use efficiency through Micro Irrigation, Waste Water Treatment and Rain Water Harvesting. It has transformed a laterite soil bed pit into a mini reservoir. The University targets to build two more pond through Rain Water Harvesting in 2023.



II. The Context of Centurion University

The World is now shifting paradigms towards rapid Urbanization. Deforestation is becoming a misnomer and a point of fallacy whose effects are evident. Odisha alone is struck by 10-12 tropical cyclones in a year and there are cyclones like “Titli” which had caused a catastrophe in far off locations from the sea like in Paralekhumdi. Centurion University is conscious to climate change and inculcates awareness among all of its students across campuses through academic engagements. The course of Climate Change, Sustainability and Organisations is a compulsory course for all of the students of the University. There is plantation of coconut trees which are deep rooted and cyclone resistant. Centurion University through its concept of Reduce, Recycle and Reuse had developed an eco-friendly pen with a brand name “Likhani” which is made up of waste paper and there is a seed at the bottom of the pen which after being disposed on the soil creates a life (A new plant). With similar concept, suitable plastic waste from university is transformed to infrastructure development materials like “Paver” blocks. Another such endeavour of the University is to reduce food wastage and transform the wasted food to compost. Similarly, the University efforts towards responsible consumption and attempts to make campus “Carbon Neutral” and energy efficient through usage of Green Energy and e-mobility. India being rich in its cultural heritage where vegetarianism is practised through ages. Centurion University has understood that meat industry consumes enormous water and has allied negative externalities on climate. Hence, the University’s centralised mess serves non-vegetarian food only thrice a day and that decision was reached through popular opinion.

Jagannath Padhi
Director,
Centurion University



1. Academic Engagements

1.1. Courses

The course of Climate Change, Sustainability and Organisations is a compulsory course for all of the students of the University. and it expounds on the following concepts

- To develop an understanding of climate change in general, responses and debates
- To create awareness about the impact of climate change on organisations in performance, growth and sustainability
- To facilitate in development of reference points to factor in aspects of climate change in organizational planning and development
- To develop an understanding of sustainable development, SDGs and their relevance for the sustainability of organisations
- To comprehend the application of the Integrated Reporting Framework for Sustainability in business.

Similarly, there are domain specific other courses that train the students on key solutions to preventing the deteriorating effects of climate change and towards sustainability.

Introductory Agro meteorology and climate change

NAME OF THE COURSES	LINKS
1. Environmental Science	<u>Know more</u>
2. Climate Change, Sustainability and Organisations	<u>Know more</u>
3. Meteorology, Climatology and Geography	<u>Know more</u>
4. Environmental Science and Disaster Management	<u>Know more</u>

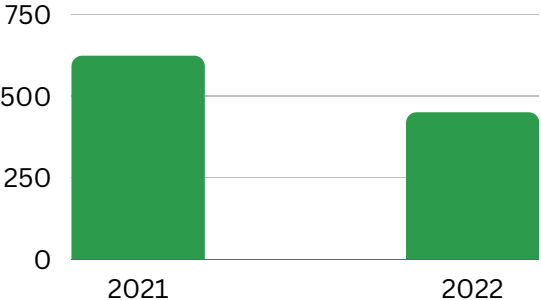


2. Reduce Recycle Reuse

2.1. Food Waste

Centurion University has zero tolerance for the wastage of food. However, there is always certain wastage pertaining to inevitable reasons.

In the year 2021, the total food wastage was 622kg which was reduced by 27.8% in 2022. The University has procured two nos food disaster units that transform food waste into natural compost.



2.2. Plastic Free Campus

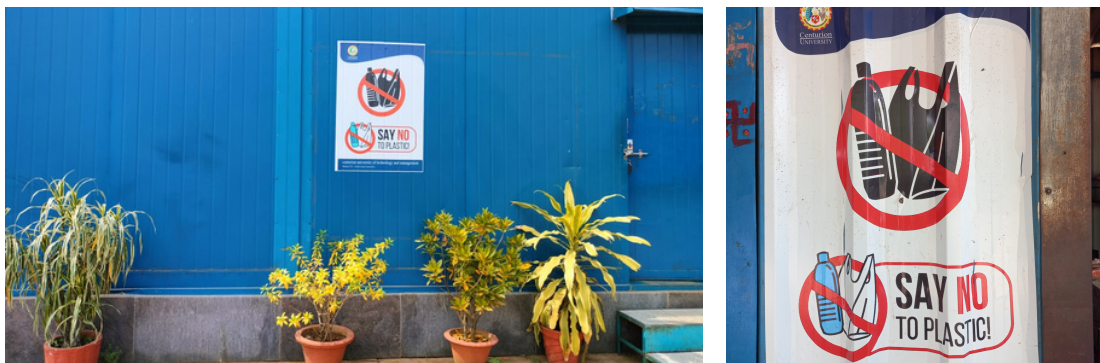
Centurion University commits itself towards a “No Plastic Campus”. Adhering to Plastic Waste Management Rules, all multi use plastics and PET materials are Reused by Upcycling the waste plastics like in development of infrastructure through manufacturing of pavers block.



Bing eco-friendly Centurion University constantly experiments and manufactures biodegradable products like bamboo cups, bottles and cups made-up of coconut shells.



Centurion University with the mantra "Reduce, Reuse, Recycle and Upcycle" transforms the waste plastic in the campus. It uses them as one of the raw materials in the manufacturing of pavers.



Centurion University has zero tolerance for the usage of plastics in adherence to the Plastic Waste Management Rules. There are signages at all the strategic locations of the University.

3. Being Eco-friendly

3.1. Waste to Wealth

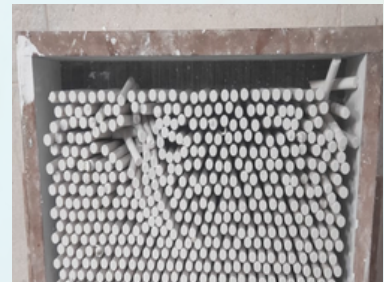
Centurion University strives for the maximum usage of eco-friendly products like disinfectants, cleaners and other products. The University also efforts to eliminate waste and explores avenues and transform them to usable products. For example Chalks, Paper Pen, Handmade Paper.



Sangam Designs: A women empowered start-up which employs differently abled girls and transforms waste cloth to usable utility.



Paper Pen



Chalk



Handmade Paper

4. Green Efforts for a Carbon Neutral Campus

4.1. Responsible Consumption

Centurion University strives to build up an energy efficient campus through usage of less energy to perform the same task and produce the same result. It is accentuated through regular energy audit which enables understanding of the niche areas and identifies scope for improvement. Thereby, Centurion University relies on usage of star rated energy appliances across its campuses. The University has taken several steps towards decarbonization through energy efficient self-sustaining activities. One of such effort is a DC Solar Micro Grid of Roof Top Solar Installations. DC micro grid with centralized generation and distributed storage enables electrification of off-grid that have difficulty in accessing the electrical distribution network to meet their energy needs.

The Roof Top Solar PV unit is equipped with PV cells which partially meets the electricity need of the campus. It supplies electricity to the market complex of the University



Solar Street Light

The University campus is all equipped with solar lighting systems.



5. Increasing Water Use Efficiency

5.1. Rain Water Harvesting

Centurion University strives to conserve rain water through rain water harvesting. One of such endeavour is to transform the natural pit in the campus into a temporary water storage tank. Besides conservation and storage of rain water, it is also getting used for aquaculture and other gardening works. RWH recharges the ground water and it makes the soil puros and arable.



Natural Pit being used for Rain Water Harvesting



Pits made by illegal mining activity which is transformed for waste water treatment and RWH



6. Striving for Sustainable Farming Practices

6.1. Organic Farming

Centurion University adopts sustainable farming practices like zero tillage farming, organic farming and others. The following section is an excerpt from day to day farming practices.



6.2. Vermicomposting

Centurion University has constructed 2258 cubic foot capacity of vermicomposting tanks. There are total 20 tanks with a production capacity of 120 quintals per year.



6.3. Production of Bio Fertilisers

Centurion University produces different bacterial biofertilizers based up of Azotobacter, Rhizobium, Azospirillum and pseudomonas and Bacillus.



7. Promoting Vegetarianism

7.1. One of the excerpts of Discover Yourself

Centurion University has hosted Shree Amogh Lila Das for a spiritual session on 'discover yourself'. Among all the discourses, there was a brainstorming session on “Human and Climate Change” and “Why to become a Vegetarian”.



