



**Centurion**  
**UNIVERSITY**

*Shaping Lives...  
Empowering Communities...*



Times Higher Education  
**Sustainability  
Impact Network**



# SUSTAINABLE DEVELOPMENT GOAL 2 ZERO HUNGER



**SUSTAINABLE  
DEVELOPMENT  
GOALS**



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## Executive Summary

Centurion University leads by example in advancing **SDG 2: Zero Hunger** through its integrated **Zero Hunger Initiative**, which aims to eradicate hunger, ensure food security, improve nutrition, and promote sustainable agriculture both within and beyond its campuses.

Through the pillars of Community, Academic, Research, Entrepreneurship, and Social Impact (CARES), Centurion University combines education with action - embedding hunger-free systems, sustainable food production, and nutrition literacy education into multiple layers of campus and community life.

In 2024, the University reached over 6,500 farmers annually (38% women, 26% youth), achieving a ₹72 lakh annual farm-gate income and supporting 25% local procurement of food through fair and traceable supply chains. On campus, the “Hunger-Free Campus Hub”, “Jagannath Annaprasadam”, and “30 Rupee Meal Scheme” provided universal, affordable meal access for students and staff. Nutrition programs - including biannual screenings, fortified menus, and awareness campaigns - contributed to a 10% reduction in anaemia, with a target of 25% by 2030.

The University’s circular food system diverts over 87% of campus food waste through eight waste-to-value channels, including composting, biochar, and black soldier fly bioconversion - turning food loss into opportunity.

Beyond campus, Utkal Krishi Mela, Agri-Clinics, and village adoption programs link faculty, students, and farmers in co-learning models that improve productivity, conserve biodiversity (78 crop varieties and 6 fish species), and build climate-resilient rural economies.

Centurion University’s Zero Hunger Framework aligns with UN SDG targets 2.1–2.5 and national priorities such as Anemia Mukh Bharat and Odisha Millet Mission. With measurable impact indicators, from 98% meal coverage to a 33% reduction in food waste, Centurion University is committed to ensuring food security, sustainable agriculture, and community wellbeing.

## Summary - Our Impact on SDG 2 - Zero Hunger

Dimension	Impact Area/Indicator	Initiatives	2024 Data	Output	Impact	2030 Target
<b>Inclusion</b>	End hunger - SDG 2.1.	Hunger-Free Campus Hubs	9,000 subsidized meals served daily; 98% coverage	Affordable and nutritious food access across all campuses (*30 Rupee Meal*, *Annaprasadam*, *Share-A-Meal*)	Ensured zero food insecurity across campuses; improved student health, nutrition, and retention	To have a replicable model for other universities by 2030
	End all forms of malnutrition, including women and youth-SDG 2.2	Nutrition for Life Program	5,000 participants (60% women)	Anaemia screening, nutrition education, kitchen gardening	Improved nutritional awareness and reduced anaemia prevalence among students and women participants	
	Double the agricultural productivity and incomes especially women -SDG 2.3	Women's Livelihood & Nutrition Tracks	450 SHG members trained	Training in mushroom, honey, and food processing enterprises	Enhanced women's income and food security through nutrition-linked enterprises	
<b>Mobility &amp; Market</b>	Double productivity and income -SDG 2.3	Sustainable Production & Market Linkages	6,500 farmers (38% women)	Climate-smart and organic farming training with market access	Increased rural incomes and strengthened sustainable farming practices	
	Promote skills, technology, and infrastructure- SDG 2.3 / 2.a	Skill-Integrated Enterprise Model (AELP)	1,100 students trained	Practical learning through dairy, fishery, and agri-enterprises	Strengthened student employability and experiential learning through revenue-generating enterprises	
<b>Partnership &amp; Policy</b>	Functioning of food commodity markets and timely access to food information - SDG 2.c	Food Security Taskforce Partnerships	5 MoUs signed with Govt & NGOs	Joint monitoring and policy coordination for Zero Hunger	Enabled integrated action and collaboration for regional food and nutrition security	90% waste diversion by 2030
<b>Advancement &amp; Innovation</b>	Sustainable food production and resilient agriculture-SDG 2.4	Safe Food & Zero Waste Initiative	87% waste diversion; 100% FSSAI compliance	Campus kitchens certified under Eat Right India & HACCP	Ensured food safety and sustainability through waste reduction and compliance systems	

	Genetic diversity of seeds and cultivated species-SDG 2.5	Seed & Biodiversity Commons	78 crops & 6 fish species conserved	Participatory seed and species conservation program	Preserved local agrobiodiversity and enhanced community resilience to climate variation	
<b>Community Well-being &amp; Transformation</b>	End hunger for vulnerable groups-SDG 2.1	Health & Nutrition Awareness Drives	12 awareness drives; 10,000 beneficiaries	Nutrition & hygiene workshops in rural schools and villages	Improved community nutrition literacy and encouraged healthy dietary practices	
	Food for all, especially vulnerable families-SDG 2.1	Community Feeding & Annaprasadam Camps	25,000 meals distributed	Food distribution for rural & migrant families in 8 districts	Strengthened food access and social equity for vulnerable groups	
	Productivity of small farmers and soil health-SDG 2.3	Agri Clinics & Village Extension	3 clusters (Gumma, Gosani, Kashinagar)	Soil testing, demo plots, and crop diversification support	Improved crop yield, soil quality, and local farming capacity	
<b>Technology Enablement</b>	Sustainable and resource-efficient agriculture-SDG 2.4	Smart Polyhouse& Hydroponics	10 operational units	Automation and hydroponic-based yield enhancement	Increased productivity and resource efficiency in farming	
	Increase investment and technology access for farmers-SDG 2.a.1	Digital Traceability & Farm Analytics	300 active users	Real-time monitoring of farm yield and prices	Improved transparency, farm management, and decision-making for small farmers	
	Sustainable circular food systems-SDG 2.4	Circular Food Systems & Waste Valorisation	750 kg/day food waste processed	Black soldier fly, compost, biogas & biochar conversion	Reduced food waste and generated income through circular resource use	
	Innovation and technology transfer in agriculture-SDG 2.3/2.a	AgriTech Demonstration Labs	10 pilot sites operational	IoT, AI, and automation in polyhouse& hydroponics	Demonstrated cost-effective, climate-resilient, and technology-driven agricultural practices	

## 1. Vision & Purpose

Centurion University's Zero Hunger Initiative aims to eradicate hunger, achieve food security, improve nutrition, and promote sustainable agriculture within and beyond its campuses.

It targets four beneficiary groups:

- ❖ Students & staff
- ❖ Community women & children
- ❖ Smallholders/SHGs/FPOs supplying food
- ❖ Campus food vendors.

The initiative blends academic teaching, applied research, entrepreneurship, and community extension to align institutional practice with UN SDG 2 sub-targets 2.1–2.5 and THE Impact Ranking parameters.

## 2. Strategic Pillars and Program Architecture

### 2.1 Hunger-Free Campus Hubs

Universal meal access for all students and staff through subsidized plans and emergency tokens.

Grievance-redressal via digital helpdesk

- ❖ On-campus “Jagannath Annaprasadam,” “30 Rupee Meal Scheme,” and “Share-A-Meal” donation model ensure dignity-based support.

### 2.2 Nutrition for Life



- ❖ Bi-annual screenings, BMI & Hb tests, IFA awareness, kitchen gardens, fortified menus.
- ❖ 10 % anaemia reduction (2024-26) with  $\geq 25$  % target by 2030.

## **STRATEGIC PILLARS AND PROGRAM ARCHITECTURE**

### **HUNGER-FREE CAMPUS HUBS**

Universal meal access for all students and staff through subsidized plans and emergency tokens.

Grievance-redressal via digital helpdesk



On-campus  
“Jagannath  
Annaprasadam,”  
“30 Rupee Meal Scheme,”  
and “Share-A-Meal”  
donation model  
ensure dignity-based  
support.

- ❖ Culinary workshops and nutrition ambassador programs build awareness.

2

STRATEGIC  
PILLARS

# SDG 2

## ZERO HUNGER

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### STRATEGIC PILLARS

**Hunger-Free Campus Hubs**  
Universal meal access  
Screenings, fortification

**Safe Food & Zero Waste**  
Diversion 1.50 % | if  
Training 6,500 farmers%

**Nutrition for Life**  
Screenings, fortification  
Gardens

**Seed & Biodiversity Commons**  
78+ indigenous crop  
varieties

### HEADLINE 2030 TARGETS

**Universal Access**  
100% safe-meals  
<1% food-insecurity

**Zero Waste**  
Diversion

**Community Outreach**  
10,000 farmers annuy,  
100% Ag/Fish graduates

### EXTENSION & MARKET LINKAGES

- Village Adoption & Kisan Melas**-Introducing improved practices
- SHGs & FPOs**  
Increase smain|ldinc incomes
- Training & Agri Clincis**  
Certification courses,  
Soil testing

### CIRCULAR & CLIMATE-SMART FOOD SYSTEMS

- 8 Waste Recovery Channels**  
Maximizing 90% landfill diversion
- Climate Resillent Agronomy**  
Water-smart, drought-tolera-  
nt
- RAS for Water-Efficient Protein**  
Sustainable aquaculture

## 2.3 Safe Food & Zero Waste

- ❖ FSSAI Eat Right Campus & HACCP SOPs adopted.
- ❖ Eight-Channel Waste-to-Wealth Cascade: prevention → forecasting → redistribution → feed → BSF bioconversion → compost → biogas → biochar.
- ❖ Plate waste cut from 300 g to 200 g per diner/day; 87 % waste diversion (2023-24) vs  $\geq 90$  % target by 2030.

## **2.4 Sustainable Production & Market Linkages**

- ❖ 6,500 farmers trained annually (38 % women, 26 % youth).
- ❖ 25 % local procurement by 2025-26 (target 35 % by 2030).
- ❖ Campus demo plots (52 kitchen gardens) generate  $\approx 26$  t produce/year and ₹ 72 lakh farm-gate income.


## **2.5 Seed & Biodiversity Commons**


- ❖ 78 indigenous crop varieties, 6 fish species, 3 livestock breeds conserved; goal  $\geq 100$  landraces by 2030.
- ❖ Participatory trials with 420 farmers & 18 SHGs.


## **2.6 Enabler Stack: Research & Incubation**

- ❖ Student start-ups on food systems, waste valorisation, bio-inputs, and climate-smart solutions.
- ❖ Annual Food Systems Innovation Challenge links industry, academia & community.

### 2.5 Seed & Biodiversity Commons


 78 indigenous crop varieties, 6 fish species, 3 livestock breeds conserved; goal ≥ 100 landraces by 2030.




Participatory trials with 420 farmers & 18 SHGs 






Participatory trials with **420 farmers & 18 SHGs**

### 2.6 Enabler Stack: Research & Incubation

 Student start-ups on food systems, waste valorisation, bio-inputs, and climate-smart solutions

 Annual Food Systems Innovation Challenge links industry, academia & community

### 3. Headline 2030 Targets & Key Performance Indicators

Sub-Target	2030 Goal	Baseline / Progress	KPI Highlights
2.1.1  Universal Access	100% safe meals; <1% food-insecurity	Meal coverage 98%	FIES score, grievance time < 48 h
2.1.2  Zero Waste	50% waste reduction by 2027; ≥90% diversion by 2030	87% (2024)	Waste kg / capita, diversion %, recovery value
2.1.3  Community Outreach	10k farmers/year (35% women)	10,480 trained 2024-25	Local procurement 29,6%
2.1.4  Education	100% Ag/Fish graduates sustainability-validated	Elective completion rate ≥30%	LMS analytics
2.1.5  Biodiversity	Campus & Community Seed Commons	65+ varieties	Seed plots, viability % curator count

## **4. Governance and Data Systems**

- ❖ University Food Security Council (UFSC) chaired by the Vice-Chancellor oversees SDG 2 planning.
- ❖ Campus Food Security Cells and Community Advisory Committees ensure participation of SHGs, FPOs and Panchayats.
- ❖ Digital SDG Dashboard tracks 40 + KPIs on nutrition, waste, and livelihoods with gender disaggregation.
- ❖ FSSAI-approved third-party audits and ISO certification validate processes and outcomes.

## **· 5. Major Outcomes (2025-26)**

- ❖ Meal Coverage: 98 % students/staff served.
- ❖ Food Waste: 33 % reduction vs baseline.
- ❖ Anaemia: 10 % improvement among screened groups.
- ❖ Local Procurement: 25 % of campus basket by value.
- ❖ Farmers Engaged: 6,500 (38 % women, 26 % youth).
- ❖ Biodiversity: 78 varieties & 6 aquatic species preserved.

## **· 6. Extension & Enterprise for Small Producers**

- ❖ Kisan Melas and Village Adoption: Biannual demonstrations link faculty and villages (one faculty = one cluster).
- ❖ Agri Clinics & Lab-to-Land: Soil testing, seed treatment, IPM kits, veterinary/fisheries days.

- ❖ SHG Training Tracks: Awareness, foundation, certificate programs on GAP, PHM, finance, e-commerce.
- ❖ Value Addition: Millet snacks, solar drying, pickle processing with branding and FSSAI support.
- ❖ Campus Procurement MoUs: Buy-back contracts, 7-day payment cycle, QR traceability.
- ❖ KPIs: Yield per acre, net margin, on-time payment rate, % local procurement  $\geq 30$ .

## · 7. Circular & Climate-Smart Food Systems

- ❖ Eight Waste-Recovery Channels: Prevention → forecasting → redistribution → feed → BSF → compost → biogas → biochar.
- ❖ Circular Feed and Fertiliser: BSF larvae → fish/poultry; biochar/compost → farm plots.

### EXTENSION & ENTERPRISE FOR SMALL PRODUCERS



**Kisan Melas and Village Adoption**  
Biannual demonstrations link faculty and villages (one faculty = one cluster).



**Agri Clinics & Lab-to-Land**  
Soil testing, seed treatment, IPM kits, veterinary/fisheries days



**SHG Training Tracks**  
Awareness, foundation, certificate programs on GAP, PHM, finance, e-commerce



**Value Addition**  
Millet snacks, solar drying, pickle processing with branding and FSSAI support



**Campus Procurement MoUs**  
Buy-back contracts, 7-day payment cycle, QR traceability



**KPIs**  
Yield per acre, net margin, on-time payment rate, % local procurement  $\geq 30$

- ❖ Climate-Smart Agronomy: Drought-tolerant millets, mulching, micro-irrigation, SRI/SCI.
- ❖ Aquaculture Innovation: RAS & Aquaponics loops for water-efficient protein.
- ❖ Post-Harvest Loss Control: Cold rooms, solar dryers, pack-house SOPs.
- ❖ Sustainable Procurement: Local and seasonal first; vendor sustainability scorecards.

## · **8. Genetic Diversity Conservation**

- ❖ Seed Gardens and Community Banks: Millets, pulses, vegetables.
- ❖ Student Seed-Saver Clubs: Credit-linked collection and testing.
- ❖ Participatory Trials: Farmer-led selection for taste, resilience, marketability.
- ❖ Livestock & Aquatic Pilots: Backyard poultry, small ruminants, indigenous carps.
- ❖ Partnerships: Dept. of Agriculture, NRLM, NABARD, CSR funders.

## · **9. Theory of Change and Governance Mechanism**

- ❖ Inputs: Campus kitchens, labs, farms, faculty, CSR funds. Activities: Nutrition services, food safety SOPs, waste recycling, training, seed commons.
- ❖ Outputs: Meals served, compost produced, farmers trained. Outcomes: Lower food insecurity, higher income, better soil and nutrition. Impact: Hunger-free campus and resilient local agrifood economy.
- ❖ Governed by SDG 2 Cell (Dean SoM + Co-Chair SABE) with Student Affairs, Hostel, Health Centre, Farms, Procurement, Incubation & IQAC.

## · 10. Campus Food Security Policies & Nutrition Services

- ❖ Universal Meal Policy: Three affordable meals daily; subsidized tiffins for day-scholars; QR meal tokens for emergencies.
- ❖ Food Safety Standards: HACCP audits, digital temperature logs, FOSTAC training.
- ❖ Healthy Menus: Millet-based meals 3–4 days/week; veg/vegan rotations; low-oil/salt.
- ❖ Transparent Labelling: Calories, macros, allergens, sodium/sugar alerts.
- ❖ Culinary Education: Monthly cook-along sessions and micro-modules for students.
- ❖ Key Indicators:  $\geq 30\%$  millet substitution;  $\geq 12$  culinary workshops per year; 100% labelling compliance.

## · 11. Quick-Start Timeline (2024–27)

Phase	Duration
0–3 month	Policy notification; baseline screening; pantry setup
3–12 month	First Kisan Mela; composters live; RAS unit; seed clubs
12–24 month	20% local procurement; $\geq 10\%$ anaemia reduction; cold-chain pilots

## · 12. Skill-Integrated Enterprise Model (AELP)

- ❖ Learn-to-Earn Framework: Students operate real production units (dairy, bakery, RAS fishery, millet processing, bio-fertiliser).
- ❖ Credit + Stipend: Academic credits linked to logged hours and profit-sharing.
- ❖ Closed Demand Loop: Campus mess and events consume outputs ensuring revenue recycling.
- ❖ Target Outputs: – Dairy 40% campus milk; Bakery 30% breakfast items; Fish/Poultry 25% mess protein.
- ❖ Risk Controls: FOSTAC audits, biosecurity, cash-flow limits.

## · 13. Embedded Extension System

- ❖ Village clusters (Gumma, Gosani, Kashinagar) linked with campus resources.

- ❖ Monthly Agri Clinic Days & biannual Kisan Melas.
- ❖ Tiered training modules from awareness to certification (30 + hrs).
- ❖ Lab-to-Land input supply & market linkage via campus haats and mandis.

## · 14. Circularity at Scale – Waste Audit Findings

- ❖ Audit (CEMC Bhubaneswar 2024): 750 kg/day food waste (Hostels 516 kg; Residences 154 kg; Canteens/Restaurants 80 kg).
- ❖ Campus population  $\approx$  9,000  $\rightarrow$  0.083 kg waste per capita/day reduction goal.
- ❖ Allocation for Recycling: Piggery 35 %, BSF 25 %, Cattle 15 %, Mealworm 10 %, Poultry 5 %, Vermicompost 5 %, Bio-Decomposer 3 %, Fish 2 %.
- ❖ 90 % diversion from landfill, multiple revenue streams (larvae, compost, livestock products).
- ❖ Clean Plate Challenge 2024: Student-led behaviour change  $\rightarrow$  23 % plate-waste reduction within two months.

## · 15. Student and Staff Food Security Initiatives

### STUDENT AND STAFF FOOD SECURITY INITIATIVES

15.1 Students	15.2 Staff
 Jagannath Annaprasadam (free temple meals on specific days).	 Access to Jagannath Food Services & 30 Rupee Scheme.
 30 Rupee Meal Scheme (687–937 beneficiaris in 2025).	 Staff canteen and Coffee Connect serve balanced meals.
 Food Rescue Dhaba (412–458 meals redistributed monthly).	 Free or discounted outputs from dairy, akery, fish & poultry units.
 Hunger-Free Vouchers 73-95 students monthly	 Nutrition counselling and health screenings embedded in wellness programs.
 Affordable outlets; Centurion Coffee Connect, Snack Time, Campus Dhaba, Bakery Unit	 Plant-based menus & vegan promotion drives by B.Sc Ad students.

## **16. Agriculture and Aquaculture Education Impact**

- ❖ MS Swaminathan School of Agriculture (MSSSoA) & School of Fisheries host ~1,150 students and graduate 300 + annually.
- ❖ Courses embed sustainability modules: Organic Farming, Climate-Smart Agriculture, Precision Farming, Post-Harvest Tech, Aquaponics, Integrated Coastal Zone Mgmt.
- ❖ Hands-on training through model farms, RAS units, and hatcheries builds job-ready and entrepreneurial graduates.
- ❖ Outcome: Odisha emerging as a hub for Agri-tech & Sustainable Fisheries.

## **· 17. Community Outreach and National Contribution**

- ❖ Village Adoption under Unnat Bharat Abhiyan: Centurion University adopted villages like Badapadu, Kharling, and Nuagada, implementing livelihood and nutrition programs.
- ❖ Training Reach: Over 5,000 farmers annually trained in organic farming, aquaponics, biofloc, and soil health.
- ❖ Women's Empowerment: SHG trainings in mushroom cultivation, apiculture, and food storage; 35–40 % women participation.
- ❖ Yield Impact: Adopted villages achieved 30 % yield increase through improved techniques.
- ❖ Aqua-Village Model: Introduced for small-scale aquaculture; awarded at state-level innovation forums.

### **17.1 Free Outreach Programs**

- ❖ Utkal Krishi Mela: Annual agricultural fair engaging 1,000+ farmers; free seeds/pesticides distributed.
- ❖ Organic Livelihood Model (OLM): Mushroom & apiculture training for SHGs.
- ❖ Organic Fish Farming & RAS Workshops: Conducted twice yearly; focus on sustainable aquaculture.
- ❖ Integrated Crop Protection with Harsha Trust: Training on natural pest control.

## **17.2 Paid Capacity Building Programs**

- ❖ Nominal-fee certified trainings (₹650–₹1,800):
- ❖ Paper cup making, woodcraft, handloom weaving.
- ❖ Mushroom spawn production, natural farming, bio-input production.
- ❖ Vanilla cultivation for value-added exports.
- ❖ Outcome: Builds entrepreneurship, reduces post-harvest losses, and strengthens sustainable local food systems.

## **· 18. Events for Local Farmers & Food Producers**

- ❖ Utkal Krishi Mela (with Krishi Jagran): Recognized progressive farmers, distributed improved seeds and organic inputs.
- ❖ Lab-to-Land Programme: Free distribution of bio-control agents (Trichoderma, Beauveria, Suprio maize/rice seeds, dragon fruit saplings).
- ❖ Mini Kisan Melas: Local fairs for awareness on tech adoption and market linkages.
- ❖ Adopted Villages
- ❖ Soil testing, irrigation setups, water harvesting, and demonstration plots.

## 17.1 Free Outreach Programs



Utkal Krishi Mela:  
Annual agricultural fair  
engaging 1,000 - farmers;  
free seeds/pesticides  
distributed



Organic Livelihood Model  
(OLM): Mushroom &  
apiculture training for SHGs



Organic Fish Farming  
& RAS Workshops;  
Focus on sustainable  
aquaculture:



Integrated Crop Protection  
with Harsha Trust:  
Training on natural pest  
control

**Outcome:** Builds entrepreneurship,  
reduces post-harvest losses, and  
strengthens sustainable local  
food systems

## 18. Events for Local Farmers & Food Producers



Utkal Krishi Mela  
(with Krishi Jagran):  
Recognized progressive  
farmers, distributed  
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Lab-to-Land Programme:  
Free distribution of  
bio-control agents  
(*Trichoderma*, *Beauveria*,  
Suprio maize/rice seeds,  
dragon fruit saplings)



Mini Kisan Melas  
Local fairs for awareness  
on tech adoption and  
market linkages



Adopted Villages  
Soil testing, irrigation  
setups, water harvesting,  
and demonstration plots

- ❖ Integration of SHGs and FPOs for market-ready products.

## 19. Campus Circularity and Waste Valorisation Achievements

- ❖ Daily Food Waste (2024): 750 kg/day (Hostel 516 kg, Faculty 154 kg, Others 80 kg).
- ❖ Waste Allocation:
- ❖ Piggery 35 % → 187.6 kg/day
- ❖ BSF Unit 25 % → 134.0 kg/day

- ❖ Cattle Feed 15 %, Mealworm 10 %, Poultry 5 %, Vermicompost 5 %, Bio-Decomposer 3 %, Fish 2 %.
- ❖ Outcome: 90 % diversion from landfill, additional income via larvae, compost, livestock feed.
- ❖ Clean Plate Challenge: 23 % reduction in plate waste through student-led behaviour change.
- ❖ Safety Standards: Mandatory segregation, PPE, pathogen audits, and biosecurity logs.

## · **20. SDG 2 Academic Integration & Student Skill Development**

- ❖ **Curriculum Integration:** SDG-linked learning outcomes in Agriculture, Fisheries, Management, and Bioengineering programs.
- ❖ **Living Labs:** Composting units, RAS systems, seed banks, and waste-to-wealth hubs act as experiential classrooms.
- ❖ **AELP Integration:** Dairy (200–300 L/day), Bakery (1,000 units/day), Poultry (1,000 eggs/day).
- ❖ **Food processing:** 300–500 kg/week of millet mixes and dehydrated produce.
- ❖ Bioenzyme & Biochar units for green campus operations.
- ❖ **Student Research:** Capstones on food safety, aquaponics, BSF valorisation, and nutritional analytics.

## · **21. Impact on Farmers and Rural Livelihoods**

- ❖ FPO & SHG Integration: 38 SHGs and 3 FPOs included in supply and training network.
- ❖ Income Enhancement: ₹72 lakh annual farm-gate income generated from community clusters.
- ❖ Skill Linkage: Farmers certified in GAP, digital finance, e-commerce, and sustainable agriculture.
- ❖ Post-Harvest Efficiency: 25 % reduction in losses through improved logistics, cold chains, and processing.

- ❖ Youth Engagement: 26 % youth participation in agricultural entrepreneurship programs.

## · **22. Sustainable Food Choices and Dietary Inclusion**

- ❖ Vegetarian/Vegan Options: Campus mess, Coffee Connect, and bakery offer vegan thalis, coconut-based beverages, and plant-based desserts.
- ❖ Local Sourcing: Coastal farmers supply fresh coconuts and local produce; coconut waste upcycled to crafts.
- ❖ Affordable Menus: “30 Rupee Meal” and “Temple Annaprasadam” ensure cost-effective access to balanced diets.
- ❖ Food Labelling & Safety: Colour-coded counters for veg/non-veg; allergen and nutrient disclosure mandated.

## · **23. Health, Nutrition & Awareness Drives**

- ❖ Regular Hb screenings ( $\geq 2$  per year for women).
- ❖ IFA supplementation and deworming camps conducted with district health offices.
- ❖ Workshops: “Cook-Along” sessions, nutrition counselling, and “Eat Right Campus” awareness weeks.
- ❖ KPIs:
  - ❖ 10 % annual reduction in mild anaemia.
  - ❖  $\geq 30$  % cereals replaced by millets.
  - ❖  $\geq 12$  health sessions/year.

## · **24. Technological & Entrepreneurial Innovations**

- ❖ Bioenzyme Production: 500 L/month replacing chemical cleaners.
- ❖ Biochar Production: 2–4 t/semester improving soil carbon.
- ❖ Digital Price Literacy: WhatsApp-based agri-price updates in Odia/English.

- ❖ Incubation Start-ups: 10+ food system ventures (2024–26) supported through mentoring and seed funding.

## · **25. Monitoring, Evaluation & Reporting**

- ❖ Dashboard: Real-time SDG 2 tracking (meal coverage, waste, anaemia, procurement, biodiversity).
- ❖ Verification: FSSAI/ISO audits; photographic & GPS documentation; gender-disaggregated analytics.
- ❖ Annual Impact Report: Submitted to IQAC/SDG Office and THE Impact Ranking.
- ❖ Core Indicators:
  - ❖ Meal access 100 % by 2027.
  - ❖ Food waste ↓ 50 % by 2027.
  - ❖ Waste diversion ≥ 90 % by 2030.
  - ❖ Anaemia ↓ 25 % by 2030.
  - ❖ Local procurement ≥ 35 %.
  - ❖ SOC improvement trend in demo plots.

## · **26. Risk Mitigation & Sustainability**


- ❖ Supply Variability: Buffer stock and multi-supplier network.
- ❖ Food Safety: Regular SOP audits and training.
- ❖ Financial Gaps: Addressed via CSR, DBT, ICAR, and incubation-generated revenues.
- ❖ Behavioural Sustainability: Student clubs, reward systems, and inter-hostel “Clean Plate League.”

## · **27. Alignment with Global & National Benchmarks**

- ❖ UN SDG 2.1–2.5 – End hunger, malnutrition, double smallholder income, ensure sustainable food systems, and preserve genetic diversity.




- ❖ **Government Alignment:** Anemia Mukh Bharat (UNICEF/GOI)
- ❖ FAO Smallholder Productivity Index
- ❖ Odisha Millet Mission
- ❖ ICAR Biodiversity Mission 2024
- ❖ NAAC Criterion VII – Institutional Values
- ❖ THE Impact Ranking – Strengthened performance under SDG 2, 3, 12, and 13.

**UN SDG 2.1–2.5 – End hunger, malnutrition, double smallholder income, ensure sustainable food systems, and preserve genetic diversity.**



**2 ZERO HUNGER**

○ 60+  
🌱 Genetic diversity






-  Ag
-  Double smallholder income
-  Ensure sustainable diversity

**Government Alignment**

- Anemia Mukh Bharat (UNICEF/GOI)
- FAO Smallholder Productivity Index
- Odisha Millet Mission
- ICAR Biodiversity Mission 2024
- NAAC Criterion VII – Institutional Values
- THE Impact Ranking – Strengthened performance

## · 28. Measurable Impacts (Campus + Community)

**◆ Measurable Impacts (Campus + Community)**

Theme	2024–25 Achievements	2030 Targets
 <b>Hunger &amp; Nutrition</b>	8,500 meals/week; 20 % waste cut; 12 % anaemia reduction	Hunger-free campus
 <b>Farmer Livelihoods</b>	1,200 trained; ₹72 lakh farm-gate income	Double productivity
 <b>Food Waste</b>	87 % diversion; 23 % plate waste cut	≥ 90 % diversion
 <b>Education</b>	100% sustainability competencies in Ag/Fish graduates	SDG-aligned curricula
 <b>Education</b>	100% sustainability competencies in Ag/Fish graduates	SDG-aligned curricula

## 29. Long-Term Institutionalization Plan

- ❖ Replication: Develop a Zero Hunger Playbook for scaling to all Centurion University campuses by 2028.
- ❖ Integration: Embed SDG 2 KPIs in Annual Academic & Administrative Audit.
- ❖ Outreach Expansion: Partner with 50 + villages and 10,000 farmers per annum.
- ❖ Digital Transformation: Integrate LMS, MIS, and IoT-based waste measurement.
- ❖ Policy Codification: Hunger-Free Campus Policy and Sustainable Procurement Charter.

## · 30. Summary of Institutional Strengths

- ❖ Unique Integrated Model: Combines education, production, and community development.
- ❖ Quantitative Impact Orientation: 40 + KPIs with baselines and dashboards.
- ❖ Inclusivity: Targets women, youth, tribal and low-income communities.
- ❖ Green Circular Economy: Converts waste into value across eight streams.
- ❖ Academic Excellence: Curricula fully aligned with sustainability and food security.
- ❖ Replication Potential: Model scalable across higher-education ecosystems.

## · 31. SDG Interlinkages – Advancing Food Security through Sustainable Systems

Centurion University’s initiatives under **SDG 2 (Zero Hunger)** are deeply interconnected with multiple other Sustainable Development Goals, reflecting a comprehensive approach that links food security, sustainable agriculture, climate resilience, and inclusive economic growth. The following table summarizes these synergies and how Centurion University’s interventions extend their impact across the SDG framework:



Linked SDG	Area of Interlinkage	Contribution through Centurion University Initiatives
<b>SDG 1 – No Poverty</b>	Livelihood and rural empowerment	Agri-entrepreneurship models and rural livelihood programs have generated income for 5,000+ farming households, reducing economic vulnerability in tribal and marginal areas.
<b>SDG 3 – Good Health and Well-being</b>	Nutrition and food quality	Integration of nutrition education and sustainable diet practices through school outreach and university canteens enhances community health and dietary diversity.
<b>SDG 4 – Quality Education</b>	Skill development in agriculture	Establishment of experiential learning farms, incubation centers, and vocational training in agri-technologies benefiting over 25,000 students and rural youth.
<b>SDG 5 – Gender Equality</b>	Women’s participation in agri-value chains	45% of participants in agricultural and food-processing skill programs are women, promoting gender inclusion in rural agribusiness.
<b>SDG 7 – Affordable and Clean Energy</b>	Renewable energy in farming	Deployment of solar-powered irrigation, dryers, and cold storage systems reduces

		operational costs and emissions in farming operations.
<b>SDG 8 – Decent Work and Economic Growth</b>	Agri-based entrepreneurship and employment	74 active agri-startups and 20+ value chain enterprises have been incubated, generating jobs in processing, logistics, and agri-technology.
<b>SDG 9 – Industry, Innovation and Infrastructure</b>	Agri-tech and innovation platforms	Smart farming initiatives such as IoT-based irrigation, precision agriculture, and digital soil testing improve productivity and resource efficiency.
<b>SDG 12 – Responsible Consumption and Production</b>	Circular agri-economy and waste-to-wealth	Bio-waste recycling, composting, and sustainable food production models minimize waste and promote responsible resource use.
<b>SDG 13 – Climate Action</b>	Climate-resilient agriculture	Implementation of controlled-environment agriculture (e.g., polyhouses, dome automation) ensures stable yields despite climatic variability.
<b>SDG 17 – Partnerships for the Goals</b>	Institutional and community collaboration	Collaborations with ICAR, NABARD, and state departments enhance research, innovation, and community-based agricultural development.

## Conclusion

Centurion University’s Zero Hunger Master Framework establishes a transformative campus community food system integrating access, nutrition, safety, sustainability, and livelihoods. Through hunger-free campus hubs, climate-smart agriculture, waste circularity, and education reforms, Centurion University demonstrates measurable advancement toward a hunger-free, equitable, and sustainable future. The initiative aligns institutional responsibility with global benchmarks making Centurion University a national exemplar in higher education for food security and sustainable development.