

**CENTURION UNIVERSITY**



# **GLOBAL GOALS, LOCAL ACTIONS**

**SUSTAINABILITY REPORT  
2023**





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### Thank You, Western Sydney University, for Your Mentorship!

Centurion University extends heartfelt thanks to Western Sydney University, currently ranked #1 in the Times Higher Education Impact Rankings, for its invaluable mentorship and guidance in advancing our SDG initiatives. Their support has been instrumental in shaping our approach to sustainable development, helping us align our educational, social, and community goals with the UN's Sustainable Development Goals (SDGs). Western Sydney University's leadership has inspired and strengthened our commitment to meaningful impact, and we look forward to continuing this impactful collaboration in our journey towards a sustainable future.



# Foreword from the President

“It is with great enthusiasm and a profound sense of purpose that I present the 2023 Sustainability Report, *Global Goals: Local Actions*, which marks a significant milestone in Centurion University's enduring commitment to sustainability. This report encapsulates our journey toward achieving the United Nations Sustainable Development Goals (UN SDGs) and reflects our dedication to addressing the world's most critical challenges through tangible and impactful local actions.”

In a world where "sustainability" is often spoken of lightly, Centurion University has chosen to lead through deliberate and meaningful contributions. Our 2023 report goes beyond words—it is a living record of the real and measurable strides we have made across a spectrum of SDGs. We remain resolute in our mission to combat poverty (SDG 1), alleviate hunger (SDG 2), promote health (SDG 3), ensure access to quality education (SDG 4), foster gender equality (SDG 5), advance clean energy (SDG 7), drive industry and innovation (SDG 9), reduce inequalities (SDG 10), build sustainable cities (SDG 11), conserve marine ecosystems (SDG 14), sustain terrestrial biodiversity (SDG 15), and cultivate global partnerships for the greater good (SDG 17).

The essence of this report lies in the stories it shares—the accounts of lives transformed, communities uplifted, and ecosystems restored. Through our extensive efforts across Odisha, we demonstrate how localised, focused interventions can create lasting impact for individuals, entire communities, and the environment. Each story within these pages reflects our unwavering resolve to contribute to a more equitable and sustainable future, inspiring us all to see the power of localised actions to effect global change.

Our commitment to sustainability is encapsulated in the acronym CARES, representing Community Engagement, Academics, Research, Entrepreneurship, and Social Impact. This comprehensive approach drives our sustainable practices, programs, and partnerships that serve to nurture responsible global citizens equipped to make a positive impact. With this report, we not only document our journey but also aim to inspire others to join us in our pursuit of sustainable solutions.

Looking to the future, Centurion University envisions a collective effort, systematically capturing and enhancing our sustainability initiatives, striving to achieve what we call “Sustainability Surplus.” This vision, deeply ingrained in our institutional ethos, is a mandate for our leadership and a call to action for every member of our community. With this foundational report, we affirm our commitment to building a world where academic excellence and environmental stewardship go hand in hand.

Let us all unite as one and continue this journey together, as one community, dedicated to realising the potential of each individual and advancing our shared goal of a sustainable, inclusive, and resilient world.



**Prof. (Dr.) Mukti Kanta Mishra**  
President, Centurion University



# Foreword from the Vice-Chancellor

At Centurion University, our unwavering dedication to inclusivity, respect, and equity forms the cornerstone of our mission. The Anti-Discrimination and Anti-Harassment Policy is a testament to this commitment, providing a framework of support and accountability that ensures each member of our community—students, faculty, staff, and visitors—can flourish in an environment free from discrimination and harassment.

We understand that diversity and dynamic engagement are essential for fostering intellectual and personal growth within our community. This policy reflects our dedication to the highest standards of conduct and aligns with our core values of respect, integrity, and excellence. It is our shared responsibility to cultivate a culture where every individual feels valued, safe, and empowered to bring their best to our collective endeavors.

In our pursuit of a safe and supportive campus environment, we encourage all members of Centurion University to engage with the principles set forth in this policy. By familiarizing ourselves with its guidelines, we commit to building a space of trust and inclusivity where aspirations are supported without fear of discrimination or harassment. Together, we strive to make Centurion University a place of learning, growth, and mutual respect—a beacon of excellence where each individual is empowered to contribute meaningfully to our shared vision.

To our dedicated faculty, staff, students, and community partners—thank you for embodying these principles and for your unwavering commitment to making Centurion University a place where dignity, opportunity, and inclusivity flourish.



**Prof. (Dr.) Supriya Pattanayak**  
Vice-Chancellor  
Centurion University, Odisha

## WE ARE CENTURIONS

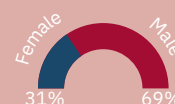
### OUR STUDENTS

Total	10700
Female	2981
Male	7719



### OUR STAFF

Total	378
Female	117
Male	261



### OUR CAMPUS NETWORK

Paralakhemundi  
Bhubaneswar  
Bolangir  
Rayagada  
Balasore  
Chhatrapur

### Our Top Research Subject Area

Physics and Astronomy	294
Environmental Science	292
Chemistry	261
Medicine	196
Chemical Engineering	179
Energy	173
Pharmacology, Toxicology and Pharmaceutics	165
Mathematics	139
Social Sciences	113



# Centurion at a Glimpse

- **6** Campuses in Odisha
- **100+** Skill Courses across 12 sectors
- **40** Outreach Centers in Remote Areas
- **52** Industry Sponsored Labs
- **2,000+** Teaching & Non-Teaching Staff
- **9** Focused SDGs
- **50+** Patents
- **20,000+** Students



## Our Top Performing Individual SDGs



## Our Overall Performance





# Sustainability Dashboard

## OUR PROGRESS

### 2023 Achievements

### 2030 Target



**44%**

Low income students receiving financial aid



SDG 1

Target 33%

*Achieved*



**30%**

of local food purchases for all campus canteens.



SDG 2

30% local food

*Achieved*



**436**

health professionals graduated in Paramedical, clinical, Forensic, and Pharmacy.



SDG 3

Targeting 700 students



**39%**

of the total students are first-generation students pursuing undergraduate courses on all the campuses.



SDG 4

Targeting 49.5%



**31%**

of female academic staff executive leaders.



SDG 5

Targeting 50% female executive leaders



**13%**

of the total power consumption is from solar renewal sources.



SDG 7

Targeting 30% from renewable sources



**120+**

Related patents since 2018, and production units

such as Wood Engineering, Transformer, Drone Manufacturing, EV production, Apparel, Agri production units, Gram Tarang entities, and integrated labs for industry and research income.



SDG 9

Targeting 140 patents



**#2000**

students received certificates and pursued study from the University's association with the National Institute of Open Schooling (NIOS), and received financial aid.



SDG 10

Targeting 3000 students



**25**

awareness events were conducted for plastic-free, paper waste, vertical gardening, micro forest, and water recycling across all the campuses.



SDG 11

Targeting 30 events p.a.



**11 Events**

Conducted on Aquaculture to assist local farmers and food producers connect and share expertise by the School of Fisheries and the School of Agriculture at Paralakhemundi Campus.



SDG 14

Targeting 20 events p.a.



**48 Hectares**

of cultivated land dedicated to sustainable cultivation in the Paralakhemundi campus and a biodiversity-pollinator paradise in the Bhubaneswar campus which assist in cooling the campus and managing climate impact.



SDG 15

Targeting 75 hectares for sustainable cultivation



**50+**

Industry Sponsored Labs, 11 centres of excellence for skill integration to curriculum, product development, related international MoUs.



SDG 17

Targeting 75 Industry-Sponsored Labs and 21 Centre of Excellence

# SUSTAINABILITY

# Centurion CARES

## OUR FRAMEWORK

Centurion CARES is committed to the UN SDGs 2030 agenda. The commitment to this emerges from the office of the President and it is evident across the management, faculty and non-teaching staff. Focusing on Community Engagements, Academics, Research and Entrepreneurship, we acknowledge the 17 Sustainable Development Goals in attaining the social Impact.

### COMMUNITY ENGAGEMENT

#### OFFICE OF THE PRESIDENT

The University is committed to engaging with the community in every discipline.

##### Key Responsibilities

- CALP through Problem Solving
- Community Diagnostic Center and Diploma in Community Health Practice
- Increase Supply of Qualified Manpower in Developing Countries and Crèche Facility
- Appropriate and Relevant Skills Training for Livelihood through Employment and Nano Entrepreneurship
- Industry and CSR connects for capacity building
- Capacity Building Training for different Stakeholder

### ACADEMICS

#### OFFICE OF THE VC, DEAN (ACADEMICS) AND DIRECTOR QA

The University focuses on aligning its curricula and the entire academic process with the SDGs.

##### Key Responsibilities

- Courses for everyone with Multiple Entry and Multiple Exit – from school dropouts to PhD – integrated and inclusive approach (all levels working in the same labs)
- Scholarship, Safe and Secure residential facility on Campus
- Skills Integrated Higher Education and NSQF and NCrF compliance
- Contextualizing and Institutionalizing lab to land and land to lab

### RESEARCH

#### OFFICE OF THE VC and PRO VC (RESEARCH AND QA)

The University continuously strives to align all R&D activities towards SDGs.

##### Key Responsibilities

- SDG aligned Patents (such as Insulin pump/Technology Intervention for preventing animal fatalities on railway tracks, seed production and nutraceuticals)
- Furthering and enhancing research on waste to wealth (inhouse developed STP, building material production, design thinking for sustainable products and new material)
- Navigates SDG related awareness, so encourages Collaboration: Conducts Hackathons: Smart India Hackathon aligned with National Government World Skills: Builds up Capacity for Skill Olympics
- Seed money and sponsored research

### ENTREPRENEURSHIP

#### OFFICE OF THE VC and PRO VC (RESEARCH AND QA)

The University believes in the model of linking education to employability, employment, entrepreneurship and commercialisation. The outcome of the same manifested in productivity and positivity. It is inculcated in the academic rigour of the University.

##### Key Responsibilities

- Has five enterprises under the Umbrella Brand 'Gram Tarang' incubated by the University
- Focus is on patent ideas, concepts, New Product Development of Products and Commercialization
- In pursuit of cherishing Entrepreneur the University promotes and incubates nano, mini, micro enterprises
- Value addition to local produces - CO extraction, Mini Diary, Seed Production Unit and Transforming degraded landscape

### SOCIAL IMPACT

#### A SHARED APPROACH

The University strives for and thrives on Social Impact in all what it designs and delivers.

##### Key Responsibilities

- Gender Equity is central to values of the University as apparent in its Leadership
- Extending skill and domain courses on online and offline mode to learners outside the University
- Waste to Wealth – Committed to Circular Economy (Reduce, Reuse, Recycle and Upcycle)
- Sustainably revitalizing soil, water and air (Vermicomposting, Food Waste to Manure and Native Plants)
- Commercialization of patents / products for social impact
- Services through Drone technology (Example: Drone spraying insecticides on approx 50000 acres, health analysis of crops)
- Financial inclusion – opening of 17 million no-frill accounts
- Horizontal - Vertical linkage to and for tribal farmers for enhancing earnings.
- Inclusive ecosystem – women, differently abled, transgenders, socio-economically challenged segments, youth from Remote Rural Regional areas.
- Local and Global partnerships for SDG outcomes

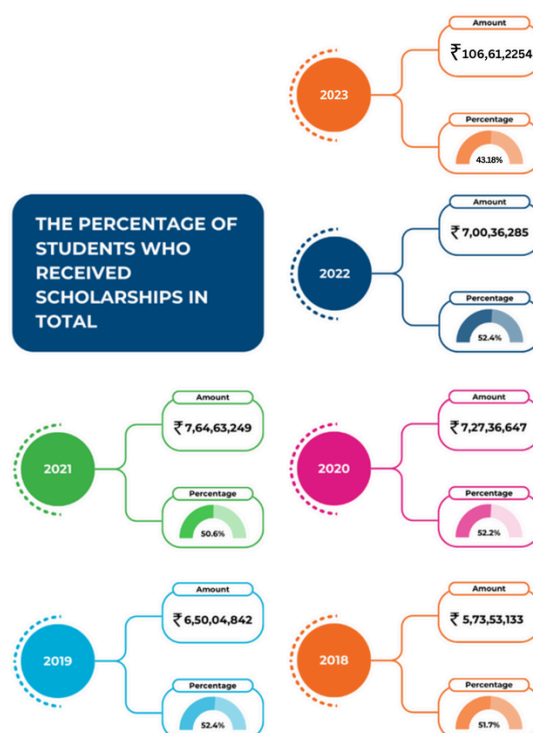




# Building Pathways Out of Poverty

Centurion University offers scholarships tailored to low-income students, covering tuition, fees, and living expenses. A total of 4621 students received scholarships amounting to 106,61,2254 INR, which is 43.18% of the total students. The number of students increased in the year 2023 to 10,700 INR from 8684 students.

## CENTURION UNIVERSITY EMPOWERS GABON'S AGRI-SEZ PROJECT WITH ITS GAJAPATI TO GABON PROJECT



In a remarkable event that signifies the growth and collaboration between nations, Union Minister of Education and Skill Development and Entrepreneurship, Shri Dharmendra Pradhan, flagged off Gabon's first Agri-SEZ project from New Delhi on 14th June 2023. This historic initiative, 'Gajapati to Gabon', sets the stage for a transformative journey in Gabon's agricultural landscape, with Centurion University playing a pivotal role as a key partner. The Agri-SEZ project aims to enhance food security, self-sufficiency, and agricultural excellence in Gabon while also fostering cross-cultural knowledge exchange and capacity building.



Students from TMREIS Hyderabad participated in a month-long internship on 'Agricultural Crop Production'



**Target SDG 1. a** Ensure significant mobilization of resources from a variety of sources, including through enhanced development cooperation, in order to provide adequate and predictable means for developing countries, in particular least developed countries, to implement programmes and policies to end poverty in all its dimensions



**Target SDG 2.a** Increase investment, including through enhanced international cooperation, in rural infrastructure, agricultural research and extension services, technology development and plant and livestock gene banks in order to enhance agricultural productive capacity in developing countries, in particular, least developed countries





### NATIONAL SKILL DEVELOPMENT CORPORATION (NSDC)

The National Skill Development Corporation (NSDC), Government of India, focuses on skill development and livelihood-linked education. Under the Innovation Agriculture project of NSDC, Centurion University is working in 9 districts of tribal-dominated South Odisha and 3 districts of North Coastal AP. Centurion University has trained 2725 farmers and 124 Community Resource Persons. Project Atal which envisions doubling of farmers' income by training and certification of 1,00,000 small and marginal farmers in 200 blocks of Odisha has covered 70,000 farmers as of this date. Centurion University and Last Mile Distribution Company (LMDC) provide end-to-end support to farmers to produce Rajendra Nagar rice variety -15048 controlled sugar variety of rice for doubling their income. o. Centurion University along with Gram Tarang has made an agreement with Society for Employment Generation and Enterprise Development in Andhra Pradesh (SEEDAP) to train 3000 farmers in Srikakulam, Vizianagaram and Vishakhapatnam. It has covered 900 farmers as of date.



### DRONE SPRAY

Centurion University offers drone pilot certificates through our RPTO at Centurion University. Also, we are offering a skill course on drones. The students from all branches are taking up drone projects. We are offering spraying services to the farmers in and around our Paralakhemundi campus. Here we are also dealing with drone imaging through drones with the help of RGB, Multispectral and hyperspectral cameras for different applications.



Use of Drones in Agriculture



**Target 2.3** By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, Indigenous peoples, family farmers, pastoralists and fishers, including through secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment



**Target SDG 8.3** Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalisation and growth of micro-, small- and medium-sized enterprises, including through access to financial services Indicators



**Target 10.2** By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status







# Feeding the Future, Nourishing the World

## CAMPUS OPERATIONS: DATA AND PROGRESS IN REDUCING FOOD WASTE

The following table highlights food waste reduction efforts:

Year	Per Capita Wastage (KGs)
2020	0.21
2021	0.15
2022	0.14
2023	0.13

This data illustrates the effectiveness of the University's waste management system, which contributes to overall food security by minimising waste and maximising the use of available food resources.

Matrix	BREAK FAST	LUNCH (Veg)	EVENING SNACKS	DINNER (Veg)	DINNER (Non-Veg)	TOTAL
Meals Served	4271	7580	3022	4360	3750	22983
Food Wastage (in KGs)	144	275	10	176	146	751
Per Capita Wastage (in KGs) in 2023	0.03	0.03	0.0	0.04	0.03	0.13
Per Capita Wastage (in KGs) in 2022	0.03	0.04	0.0	0.03	0.04	0.14
Per Capita Wastage (in KGs) in 2021	0.04	0.04	0.00	0.04	0.03	0.15
Per Capita Wastage (in KGs) in 2020	0.05	0.08	0.00	0.05	0.03	0.21

Food Wastage and Recycling Index

## EMPOWERING FARMERS THROUGH TRAINING AND SUSTAINABLE PRACTICES

Centurion University engages local farmers through hands-on training programs aimed at improving food production while promoting environmental sustainability. These initiatives emphasize the adoption of organic farming, crop rotation, and soil health management practices. The focus on sustainable farming helps farmers increase yields and enhance the resilience of agricultural systems in rural areas, mitigating environmental impacts while boosting food production.

### Block Mushroom Farming

Since 2016, Centurion University, Paralakhemundi has partnered with the National Skill Development Corporation (NSDC) as an Innovation Funded Partner. This collaboration aims to strengthen the agricultural sector by enhancing the skills of both farmers and Community Resource Persons (CRPs). To date, approximately 4,000 farmers have been trained in various roles including Mushroom Cultivation, Vermicomposting, and Organic Farming, while 180 CRPs have been equipped to further promote agricultural advancement.



## COMMUNITY-BASED FOOD DISTRIBUTION NETWORKS

Centurion University is involved in school feeding programs that ensure children in rural areas have access to nutritious meals. These programs not only combat hunger but also address malnutrition, promoting better health outcomes and enhancing educational attainment for children from low-income families. In collaboration with local communities, the University supports the creation of efficient food distribution systems designed to reduce food waste and improve access to nutritious food. These systems are particularly beneficial in underserved rural areas, where they help ensure that vulnerable populations have consistent access to essential nutrients, improving overall food security.

## AGRICULTURAL EDUCATION

Through the M.S. Swaminathan School of Agriculture, about 1400 students engage in hands-on learning experiences that involve modern farming techniques and sustainable crop management. On-field projects allow students to apply their knowledge in real-world settings, focusing on developing practical solutions to food security challenges.

## INCUBATING AGRI-TECH STARTUPS

Centurion University actively fosters entrepreneurship in the agricultural sector by supporting students and alumni in developing innovative agri-tech startups. These startups offer solutions such as low-cost farming technologies, sustainable irrigation systems, and mobile platforms for market access, all of which contribute to enhancing food production and distribution efficiency.

## PROMOTING AGRI-ENTREPRENEURSHIP IN RURAL COMMUNITIES

The University also encourages agri-entrepreneurship among rural communities, helping them establish businesses focused on sustainable farming practices. By promoting economic opportunities in agriculture, these ventures contribute to local food security while providing livelihoods for rural populations.

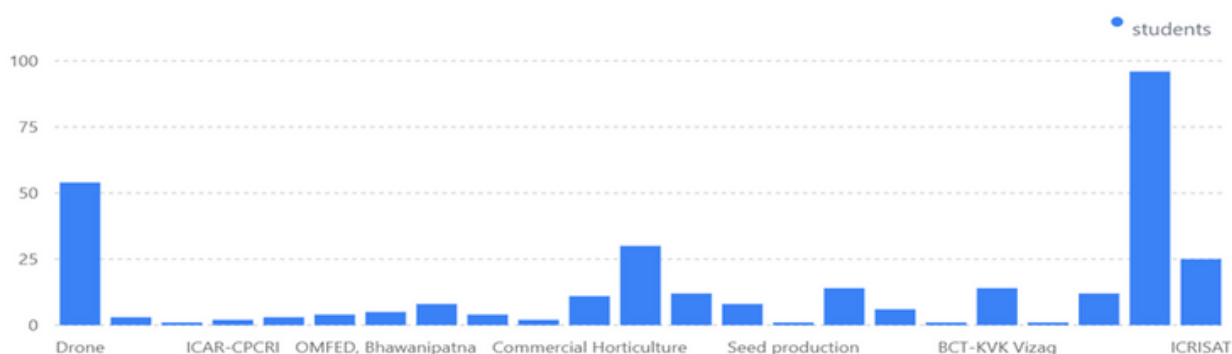




## EDUCATING FOR FOOD SECURITY

Through the M.S. Swaminathan School of Agriculture, about 1400 students engage in hands-on learning experiences that involve modern farming techniques and sustainable crop management. On-field projects allow students to apply their knowledge in real-world settings, focusing on developing practical solutions to food security challenges.

Agricultural Extension and Leadership Programs (AELP) focus on enhancing skills related to agricultural extension services, rural development, and leadership. Students choose one of several domains to develop expertise, equipping them with the knowledge and leadership capabilities to address challenges in the agricultural sector. This interdisciplinary program combines agriculture, environmental sustainability, community engagement, and effective leadership, preparing students for diverse careers in agriculture and related fields.



Students allotted for AELP unit in 2023-24



**Target 2.3** By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers, including through secure and equal access to land, other productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment



**Target 2.4** By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality



**Target 8.3** Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services





# A Vision for Good Health

## Addressing Health Challenges through Community Outreach

At Centurion University, we recognise that active community involvement is essential for effectively addressing health challenges. Our outreach programs focus on providing critical healthcare services to underserved populations. In 2023, we organised free health check-ups and vision screening camps, benefiting over 12,000 individuals in and around Odisha. Additionally, we offer nutritional support in our adopted villages, ensuring that local communities receive the essential health services they need.

### CENTURION UNIVERSITY CELEBRATES 25 BLOOD DONATION DRIVES

Centurion University, Odisha, celebrated the silver jubilee, which is 25 blood donation drives since 2010, on the 30th September 2023. This institution has been a beacon of hope, bringing together students, faculty, and the local community to save lives through voluntary blood donations. This momentous occasion witnessed the donation of over 320 units of blood, a testament to the enduring spirit of altruism that has defined Centurion University's legacy. The Central Red Cross Blood Bank, Katak, and Odisha Mo Parivar-Jiban Bindu teams played a crucial role in successfully executing the blood drive, demonstrating the power of collaboration in serving the greater good.



The gathering, comprising enthusiastic faculty, dedicated staff, and passionate students, all participated enthusiastically.

### FOSTERING HEALTHCARE INNOVATION IN EDUCATION

Centurion University encourages innovation in healthcare by supporting students and faculty (436 healthcare graduates in 2023 ) in entrepreneurial ventures that tackle health challenges. Our School of Paramedics and Allied Health Sciences (SoPAHS) is dedicated to establishing diagnostic facilities in rural communities, enhancing healthcare accessibility and fostering innovation. The school also focuses on upskilling students to engage effectively with their communities and provide essential health services.

### ENHANCING HEALTHCARE DELIVERY RESEARCH

Centurion University operates a Community Diagnostic Center, which provides low-cost or free healthcare services to community members. This initiative allows our students to gain valuable hands-on experience while serving the community. The University also conducts workshops and seminars on disease prevention, vaccination, and healthy lifestyle choices, further empowering communities with knowledge that supports overall health. Our training programs in sustainable agriculture complement these health initiatives, emphasising the connection between nutrition, health, and well-being.

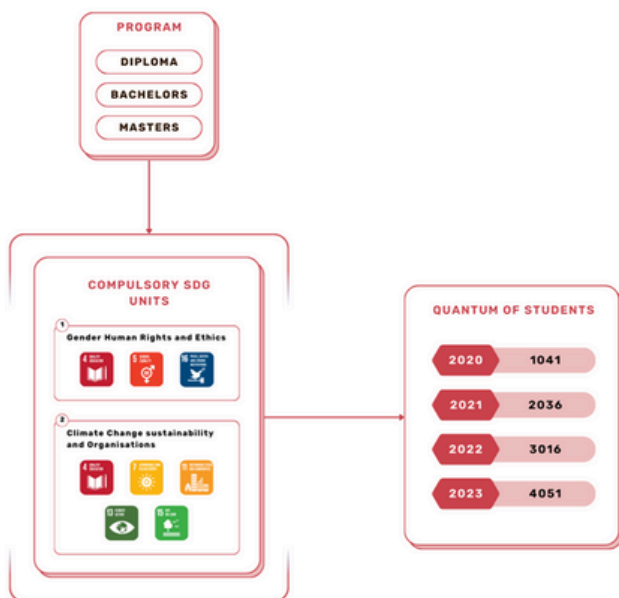


**Target 3.4** By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being



# Learning Today, Leading Tomorrow

The SDG courses Climate Change, Sustainability, and Organizations, Gender, Human Rights and Ethics and Human Values and Ethics are mandatory for all the first year students of all the programs offered by the University



## CLIMATE CHANGE, SUSTAINABILITY, AND ORGANISATIONS

The key objectives in developing an understanding of climate change include fostering a broad awareness of its general impact, responses, and ongoing debates. It is essential to recognize how climate change influences organizations, affecting their performance, growth, and long-term sustainability.



## GENDER, HUMAN RIGHTS AND ETHICS

Centurion University prioritises gender equality and human rights in its academic programs. CUTM has established a Centre for Women's Studies and Development to promote women's empowerment and address issues like gender-based violence. The University also emphasises ethics in its research and academic activities, encouraging students to adopt a socially responsible approach in their studies and professional careers. This aligns with international standards and national policies on human rights and gender equality. The related SDGs are SDG 1, SDG 4, 5, SDG 10, and SDG 16.



**Target 5.1** End all forms of discrimination against all women and girls everywhere



**Target 4.7** By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development



**Target 13.3** Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning Indicators





# Empowering Equality

The World Needs  
**Engineers,**  
Engineering Needs  
**Women.**

**Hurry Up!**  
Limited Seats Left

**CHANDRIKA SCHOLARSHIP SCHEME**

**50% Scholarship on**

**B.Tech 1st Year Course Fees for Female Candidates!**

**Courses:** B.Tech (EEE,ECE,Mech,Civil, Mining, Biotechnology Aerospace & Agriculture) & Diploma ( All branches)

Women Application Rate

■ 2021-2022 ■ 2022-2023 ■ 2023-2024 ■ 2024-2025



## CHANDRIKA SCHOLARSHIP SUPPORT FEMALE ENGINEERS

Centurion University's 'Chandrika' Scholarship is a unique initiative to develop young women as #Engineering Leaders of our nation. This scheme came into effect since 20th Oct 2021. CSR Scholarships offered in collaboration with corporate partners, helping underprivileged students access higher education.





### CELEBRATING INTERNATIONAL DAY OF THE GIRL CHILD

On October 10th, 2023, the members of various CSR clubs observed World Mental Health Day and International Day of the Girl Child by performing a street play and a flash mob. The activities highlighted the importance of mental health as a universal human right, in line with the 2023 theme "Mental health is a universal human right." The observance also supported the theme of the International Day of the Girl Child, "Invest in Girls' Rights: Our Leadership, Our Well-being," advocating for girls' rights and addressing gender inequality. The Dance Club performed an energetic flash mob to raise awareness and engage the community.

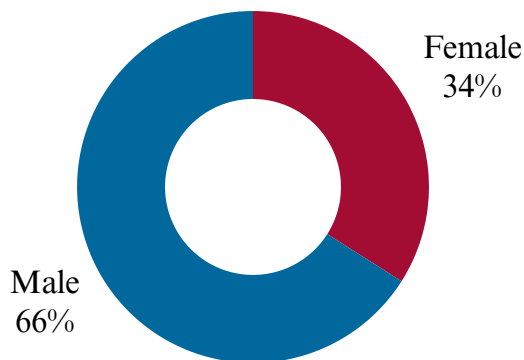


### ENHANCING RURAL LIVELIHOODS THROUGH SPAWN AND MUSHROOM PRODUCTION TRAINING

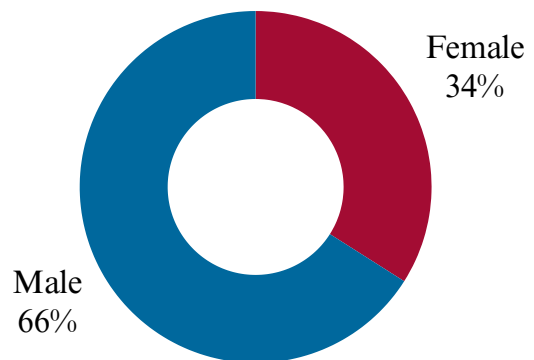
From September 12th to 16th, 2023, Centurion University, Paralakhemundi, hosted a training program under the Odisha Livelihood Missions (OLM) project aimed at enhancing rural and coconut-based livelihoods. Organised in collaboration with ICRISAT, Hyderabad, this program provided practical training on spawn and mushroom production technologies, addressing key challenges and demonstrating the economic benefits of these products. A total of 24 Self-Help Group (SHG) women farmers and coordinators from the districts of Nabarangpur, Koraput, Rayagada, and Gajapati participated, alongside 13 students. Participants received comprehensive training materials in English and Odia, including manuals, leaflets, and schedules. The program also included field visits to commercial agricultural enterprises and hands-on sessions at the Spawn Unit, Mushroom Unit, and Microbiology Lab, ensuring a robust learning experience.



Training of Self-Help Group (SHG) women farmers of Spawn and Mushroom production



Staff Diversity- Gender



Diversity of Faculty : Phd and Non Phd

Employee diversity at Centurion University, Odisha





# Women in Topmost Echelon of Leadership



**Dr. Supriya Pattanayak**  
Vice Chancellor



**Dr. Anita Patra**  
Registrar



**Dr. Jyoti Sayantani**  
Director, Quality Assurance



**Dr. Sujata Chakravarty**  
Dean, SoET



**Dr. Soumya Jal**  
Dean, SoPAHS



**Dr. Prajna Pani**  
Head, Centre for Edutech



**Dr. Yashaswi Nayak**  
Dean, SoAS



**Dr. Swetlina Mishra**  
CEO, Woodworks, GT-Tech



**Dr. Padmaja Pattnaik**  
Head, Centre for Lasers



# Sustaining Life through Clean Water

## SEWAGE TREATMENT PLANT FOR CAMPUS WATER RECYCLING



In response to the increasing demand for water conservation, Centurion University has established a Sewage Treatment Plant (STP) on campus. This facility processes 282,000 litres of water daily, with treated water being utilised for gardening, farming, and other campus applications. Students actively participate in managing this system, gaining practical experience in wastewater treatment and its significance for sustainable water use.



## WATER-EFFICIENT MANAGEMENT AND CONSERVATION

Research efforts are directed toward developing water-efficient agricultural techniques, such as drought-resistant crop varieties and precision irrigation systems. These innovations help reduce the overall water footprint of agriculture while ensuring high crop yields, benefiting farmers and communities in water-scarce regions. Courses on Water Centurion University offers specialised courses in water quality management, soil conservation, and sustainable water use in agriculture. These programs equip students with advanced techniques for monitoring water pollution, implementing micro-irrigation systems, and promoting rainwater harvesting, preparing future professionals to tackle water scarcity and sanitation challenges.

## WASTEWATER TREATMENT AND ZERO WASTE INITIATIVES

Centurion University's commitment to water conservation extends beyond its campus through its "Reduce, Reuse, and Recycle" initiative. The University operates a zero-waste campus, ensuring that wastewater is fully treated and reused for gardening and landscaping. The University adheres to India's Solid Waste Management Rules 2016 and Hazardous Waste Management Rules 2019.

## SANITATION INITIATIVES FOR PUBLIC HEALTH

The University promotes hygiene and sanitation through its "Cleanliness is Godliness" campaign, which ensures the use of eco-friendly cleaning materials to minimise water waste. Our sanitation practices align with the "Swachh Bharat Abhiyan," maintaining clean restrooms and employing minimal water for cleaning. The establishment of incinerators for sanitary pad disposal ensures compliance with the Prohibition of Employment as Manual Scavengers Act, 2013.



**Target 12.5** By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse





# Powering the Future with Clean Energy

## SARPANCH CONCLAVE

Centurion University organised a Sarpanch Conclave in 2023. The conclave highlighted the transformative potential of clean energy products like solar dryers and irrigation systems in rural development. Solar DC standalone system is in Damapada, Giringaput, Majana, and Minchipatana. Discussions focused on leveraging these technologies to enhance agricultural productivity, mitigate environmental impact, and improve livelihoods in rural areas. About 33 Sarpanches explored how solar-powered innovations can reduce dependency on conventional energy sources, lower operational costs, and promote sustainable farming practices in Chatabara Grama Panchataya.

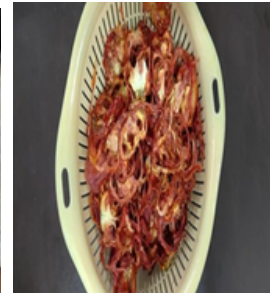
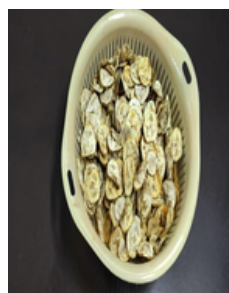


## DEVELOPMENT OF A HYBRID SOLAR DRYER FOR DRYING FOOD PRODUCTS

The University has developed a high-performance, portable hybrid solar dryer that sustainably preserves food using clean solar energy. With a 15 kg capacity, the dryer can process vegetables like tomatoes, potatoes, bitter gourd, and green bananas, maintaining high nutrient levels through quick, hygienic drying. It achieves a drying efficiency of 33.61% and a rate of 1.351 kg/hr, even operating in cloudy weather or at night with paraffin wax support. One dryer aids fisherwomen in Markondi village in drying fish, while the other supports research and teaching at the University.



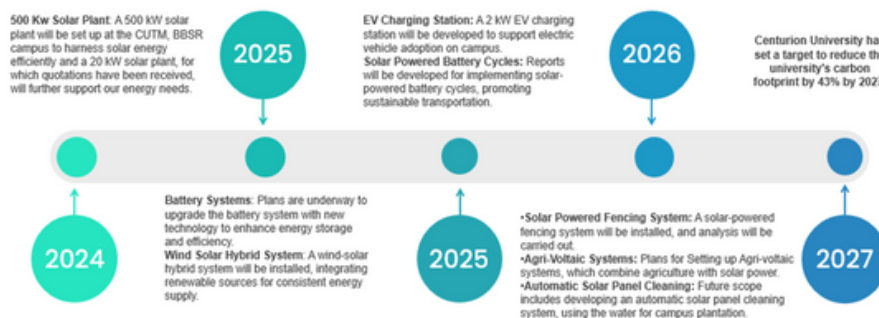
Hybrid Solar Dryer Designed and Developed at the University



Dried food products

## OUR PATHWAY TO AFFORDABLE AND CLEAN ENERGY

### Future Initiatives for Attaining SDG-07 at Centurion University of Technology and Management



**Target 7.1** By 2030, ensure universal access to affordable, reliable and modern energy services



**Target 13.3** Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning

## 7 AFFORDABLE AND CLEAN ENERGY



### ENERGY EFFICIENCY

Buildings are designed with advanced energy-efficient systems, including passive solar design, high-performance insulation, and energy-efficient HVAC systems. This reduces the overall energy demand and supports the University's goal of minimising energy consumption.



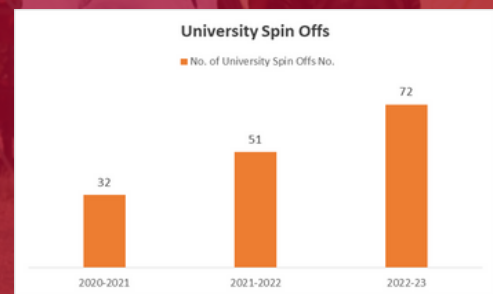




# Empowering Progress through Innovation

## NUMBER OF UNIVERSITY SPIN-OFFS

This graph shows that over recent years, Centurion University has had a steady increase in the number of spin-offs, reflecting its robust support ecosystem for start-ups, which includes incubation programs, mentorship opportunities, and access to funding. By encouraging students and researchers to pursue entrepreneurial ventures, Centurion University not only contributes to the local economy but also enhances its reputation as a hub for innovation. Some of the ventures like Centurion Fab, Centurion Coffee Connect, and Aussie Fashions, etc.



**Target 9.5** Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending

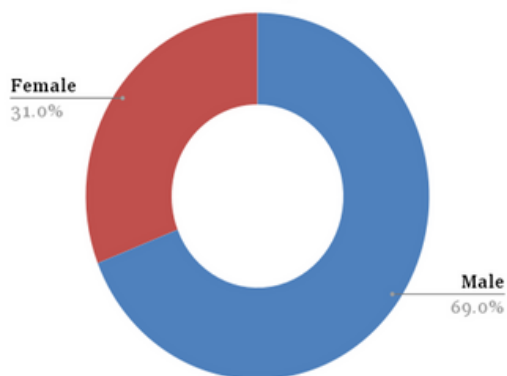


# Building Bridges, Reducing Gaps

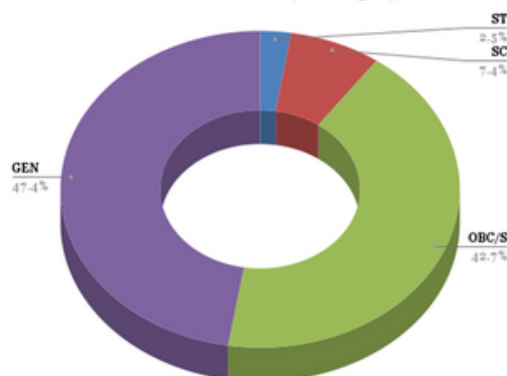
## THE DIVERSITY OF CENTURION UNIVERSITY

Student Diversity at Centurion University, Odisha

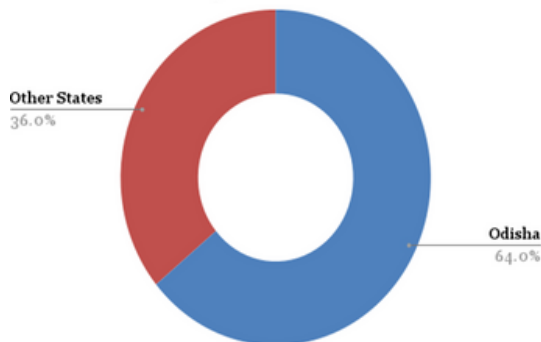
Student Diversity - Gender



Students Diversity- Category



Students Diversity- Odisha and other states



### DIVERSITY PROFILE AT THE UNIVERSITY:

Inclusion and diversity are integral to Centurion's philosophy of fostering a supportive and well-rounded environment. Centurion is dedicated to providing high-quality education to deserving students, regardless of their socio-economic background, ethnicity, gender identity, or disability. ST, SC, and OBC are Indian government-recognized categories for Scheduled Tribes, Scheduled Castes, and Other Backward Classes eligible for reservations in education and jobs. We have 300 students from developing countries in the present year (comprising approximately 10%). Students from several low- and middle-income countries, such as Afghanistan, Nepal, Bangladesh, Sudan, and Uganda, study at the University.





## EMPOWERING INCLUSION THROUGH MENTORSHIP AND SKILLS TRAINING

Centurion University is committed to empowering individuals with disabilities, transgender persons, and other underrepresented groups through dedicated mentoring programs and vocational training. By pairing students with experienced mentors, the university offers guidance on academic, career, and personal development, helping them navigate university life, manage coursework, and build confidence. Collaborating with industry partners, Centurion University also provides vocational training in fields such as information technology and entrepreneurship, equipping participants with practical skills that enhance employability and create pathways to meaningful careers, fostering an inclusive environment for all.



**Vocational Training of Transgender students on the operation of Forklift Truck in sponsorship with Godrej and Boyce**



**Employment at GTET apparel of Differently-Abled**



**Odisha Skills Development Authority (Odisha Govt. Scheme)**



**Training of Specially-abled Youth in different livelihood schemes**



**Centurion University students win first prize in a quiz competition for differently-abled participants conducted by LTI Mindtree**



**Target 4.5:** Eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities and indigenous peoples.



**Target 8.5:** Achieve full and productive employment and decent work for all women and men, including persons with disabilities, and equal pay for work of equal value.



**Target 10.2:** Empower and promote the social, economic, and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion, or economic or other status.





# Smart Growth, Thriving Communities

## SUSTAINABLE TRANSPORT ON CAMPUS VIA ELECTRIC-VEHICLE FLEET



Centurion University has deployed about 30 e-vehicles across all the campuses for internal transportation with seating capacities ranging from 3 seaters to 12 seaters.



## BUSINESS INCUBATORS: ASSISTANCE FOR LOW-CARBON INNOVATION AND SUSTAINABLE TRANSPORT

Centurion University has business incubators that provide startups with physical space, mentorship, networking opportunities, and access to resources to support transitioning to a low-carbon economy and low-carbon technologies for sustainable cities and communities. The University has supported one start-up under clean energy adoption and implementation Skyrider Electric. Skyy Rider Electric is an emerging electric vehicle manufacturer based in Centurion University, focusing on environmentally friendly and affordable transportation solutions. Founded in 2020 the company has quickly established itself with two manufacturing units and plans for expansion. Each year, the company manufactures 500 e-vehicles in several variants.

## CAMPUS SHUTTLE SERVICES

One of the most remarkable transformations occurred with the introduction of a campus shuttle service. Powered by clean energy sources, the shuttle buses provided convenient and eco-friendly transportation for students and staff. They became a symbol of the University's commitment to sustainability, ferrying passengers to and from campus with efficiency and reliability. The impact of these initiatives extended far beyond the University gates. Local communities took notice, inspired by Centurion University's innovative approach to sustainable commuting. Soon, similar programs began to emerge across the city as businesses, government agencies, and residents joined forces to embrace greener transportation solutions.



**Target 11.2** By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons



**Target 13.3** Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning Indicators



# From Waste to Resource, For a Better Tomorrow

## ZERO TOLERANCE POLICY SINGLE USE PLASTICS

The University's social impact initiatives emphasise a commitment to sustainability through the principles of Reduce, Recycle, and Reuse. A zero-tolerance policy for single-use plastics and the repurposing of multi-use plastics into construction materials underscore the University's dedication to waste minimisation.

To support the students in their projects and impart skill-based knowledge to the students, the Pavers Manufacturing Unit exemplifies the waste-to-wealth lab in action. These pavers are made from all the waste materials transformed into valuable construction products like bricks and pavers.



## BLACK SOLDIER FLY LARVAE PRODUCTION UNIT:

The campus has implemented innovative waste reduction strategies by utilising organic waste to produce high-protein animal feed and organic fertiliser through the recycling process with black soldier flies. This approach not only minimises waste but also enhances sustainability by transforming organic materials into valuable resources. The black soldier fly larvae efficiently convert the waste into nutrient-rich feed for livestock. At the same time, the remaining byproducts are processed into organic fertiliser, enriching the soil and promoting healthy crop growth. This circular system exemplifies a practical solution for waste management and resource recovery in agricultural practices.

## BIOFLOC UNIT



## SUPPORTING ECO-FRIENDLY VENTURES

The University nurtures a culture of sustainability-driven entrepreneurship, providing resources and mentorship for students to establish eco-friendly ventures. By supporting initiatives like biodegradable product manufacturing, the University fosters innovation while prioritising environmental impact. This entrepreneurial focus empowers students with valuable skills and contributes to local communities' sustainable development, underscoring Centurion's commitment to responsible production.





# Thriving Marine Ecosystems

## REDUCING PLASTIC WASTE AND PROTECTING AQUATIC ECOSYSTEMS

On February 20, 2023, Centurion University's School of Fisheries hosted a program focused on the threats to aquatic life, emphasising the importance of environmental stewardship and the reduction of plastic waste on campus. This initiative aimed to raise awareness about the significant challenges posed by pollution, including plastic waste, overfishing, habitat destruction, climate change and invasive species.

First-year students participated in the event, displaying banners and engaging the community to foster collective responsibility for protecting our aquatic ecosystems and the diverse species that inhabit them. Through education and community engagement, the program seeks to implement an actionable plan to reduce plastic waste, promoting sustainable practices that safeguard vital resources for both the planet and our communities. By collaborating in these efforts, we can make a meaningful impact on preserving our environment for future generations.

## PROMOTING SUSTAINABLE WATERSHED MANAGEMENT THROUGH HATCHERY FISH SEED PRODUCTION

On August 27, 2023, Centurion University led an impactful watershed management program on hatchery fish seed production at the Paralakhemundi campus. This initiative focused on the role of hatcheries in promoting sustainable aquaculture by producing high-quality fish seeds to ensure healthy fish stocks and enhanced yields.

Participants engaged in an interactive demonstration, witnessing the process of fish seed production firsthand. This hands-on experience provided valuable insights into maintaining species diversity and ecosystem health in local watersheds, aligning with the University's commitment to location-specific watershed management practices that foster ecological balance and community sustainability.



**Target 12.5** By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse





# Guarding Nature for Generations Ahead

## GENETICS AND GENOMICS INTO THE EDUCATIONAL CURRICULUM:

The Summer Internship 2023 (May 15 - June 7) and Summer Internship 2024 (May 20 - June 12) provided participants with a dynamic learning environment focused on molecular biology and bioinformatics. Spanning various areas such as plant screening against biotic stress, genomic DNA/RNA isolation, PCR techniques, gene cloning, and plant tissue culture, the internships offered both hands-on experience and Theoretical insights. Participants engaged in practical sessions essential for understanding genetic diversity and biotic stress resistance mechanisms, while also exploring bioinformatics applications like transcriptomics and variant calling. Complementing this, a three-day hands-on workshop on Basic Techniques of Molecular Biology (November 23-25, 2023) provided foundational skills crucial for addressing Sustainable Development Goal 15 (SDG 15) - Life on Land.



## POLLINATORS' PARADISE

Centurion University's Pollinators' Paradise embodies the University's unwavering commitment to sustainable practices and responsible environmental stewardship. It stands as a testament to our dedication to nurturing local biodiversity within our planning and development processes with the resurgence of the ecosystem within this verdant sanctuary. A variety of plants, birds, mammals and reptile species have been observed on campus. These observations contribute valuable data for understanding and conserving local fauna. The University's commitment to biodiversity extends to insects and arthropods. The campus hosts a variety of insects, with pollinators playing a crucial role in supporting the environment, thus actively engaging in afforestation and reforestation efforts, ensuring the preservation and restoration of biodiversity within its campuses. The University's Plant Tissue Culture Laboratory plays a crucial role in maintaining biodiversity by providing healthy starter plants, including banana, pineapple, and ornamental plants. This initiative aims to offer academic training, research opportunities, and skill development to students while benefiting tribal farmers and rural communities.



**Target 15.2** By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally



**Target 15.5** Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species



# Fair Governance, Peaceful Communities

## UPHOLDING FAIR BUSINESS PRACTICES AND LEGAL SUPPORT FOR COMMUNITY EMPOWERMENT

Centurion University's commitment to SDG 16 is reflected in its multi-faceted approach to legal aid and community empowerment. Through its legal aid awareness programs, the University is not only raising awareness about legal rights but also facilitating the peaceful resolution of conflicts in nearby villages. These initiatives provide locals with the knowledge and tools to resolve disputes without resorting to violence or lengthy court battles, which strengthens the overall social fabric.

Centurion University runs mediation workshops and dispute resolution training in collaboration with local authorities and legal professionals. This equips community members with the skills to handle disputes independently and amicably, fostering a culture of dialogue and mutual respect.

### FAIR BUSINESS TRAINING

At Gram Tarang, the University's emphasis on due diligence and fair business practices extends beyond individual legal aid. The local advocate working with business owners ensures that all contracts are reviewed thoroughly before being signed, safeguarding the rights of all involved parties. This proactive legal support helps prevent exploitation, misunderstandings, or unfair terms that could lead to conflicts in the future.

Centurion University has been involved in capacity-building initiatives that train local leaders and entrepreneurs on understanding the legal frameworks around business, property rights, and contracts. These training programs not only contribute to more informed and responsible business practices but also empower communities to better advocate for their rights, ensuring that they are treated fairly in both commercial and personal matters.







# Achieving Objectives through Collaborations

## INTERNATIONAL CONFERENCE ON ENVIRONMENT, ENGINEERING, AND AGRICULTURE (ICEEA)

Centurion University organised the International Conference on Environment, Engineering, and Agriculture on 14th-15th July 2023. The conference served as a platform for interdisciplinary dialogue among researchers, academics, and industry professionals. The conference aimed to address pressing issues related to environmental sustainability, engineering advancements, and agricultural practices, emphasising the integration of these fields for sustainable development. Participants presented original research, shared innovative ideas, and explored practical solutions to contemporary challenges, fostering collaboration and knowledge exchange, including a focus on gathering, monitoring, and measuring data across land, food, energy, and waste.



## International Conference on Environment, Engineering, and Agriculture (ICEEA - 2023)

Organized by Centurion University Of Technology and Management, Bhubaneswar, Odisha, India

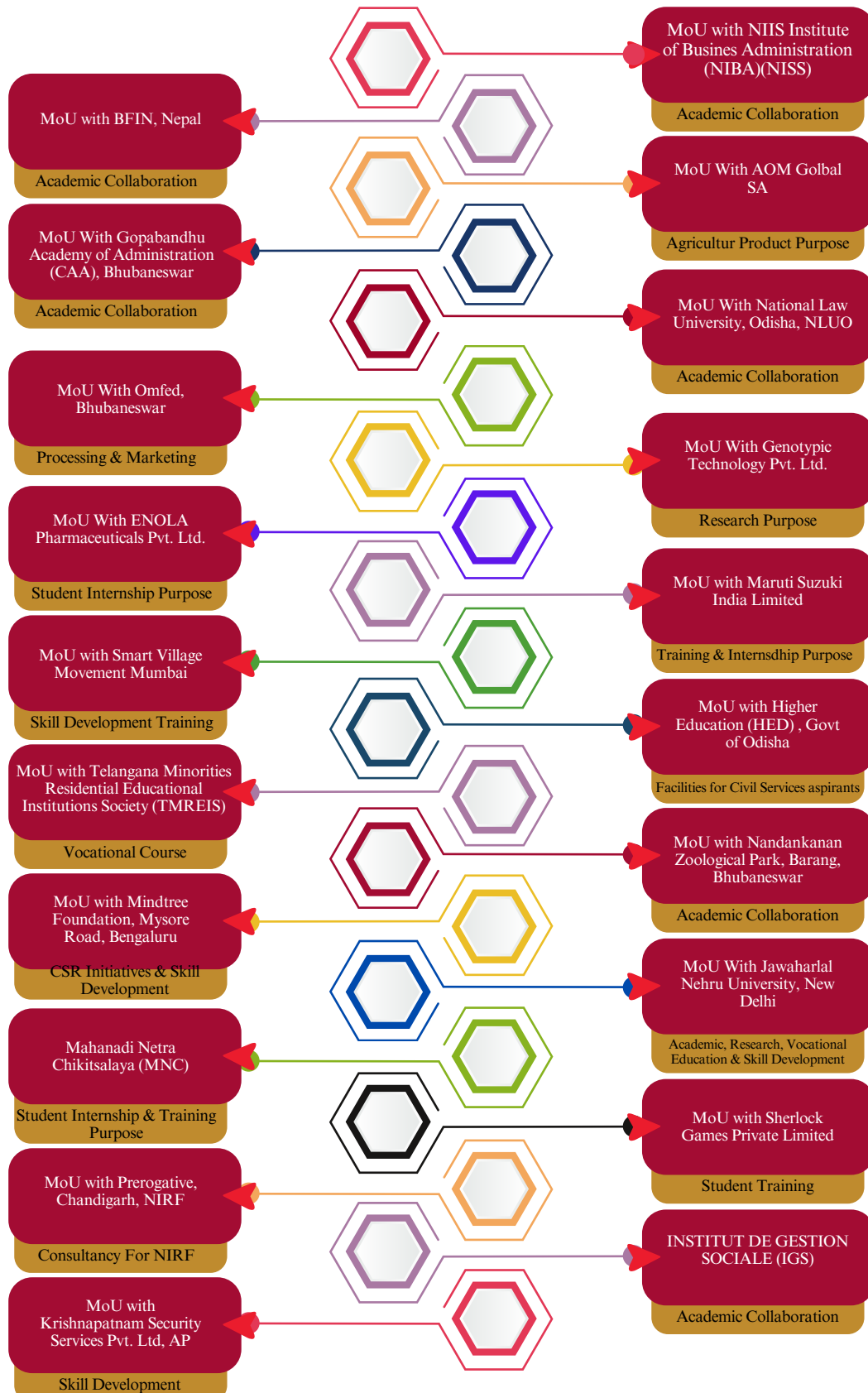
[Home](#)[About Us](#)[Guest Editors](#)[Speakers](#)[Organizing  
Committee](#)[Call for Papers](#)[Registration](#)[Venue & Contacts](#)

Official Website of ICEEA - 2023



## DRIVING SUSTAINABLE DEVELOPMENT THROUGH GLOBAL PARTNERSHIPS

Centurion University actively fosters partnerships to advance sustainable development. With over 105 active MoUs with organizations across regional, national, and international levels—including government collaborations—the University strengthens its commitment to collective growth. These partnerships drive innovation, resource-sharing, and inclusive development, reinforcing the importance of global cooperation for a sustainable future.







**Centurion**  
**UNIVERSITY**

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

# CENTURION UNIVERSITY

CENTURION  
UNIVERSITY

## CAMPUSES

CENTURION  
UNIVERSITY

### **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