



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

### **VIZIANAGARAM, ANDHRA PRADESH**

#### **ANNUAL REPORT 2023-24**

The University has been running School of Engineering and Technology, School of Management, School of Paramedic and Allied Health Sciences since its inception. In the year 2024, the new schools, Centurion School of Smart Agriculture and School of Pharmacy have been established to offer BSc Ag. (Hons) degree, and B. Pharma and D. Pharma respectively. Currently University is offering 22 programmes with a student strength of appx.1715. We have 60 faculty, 42 non-teaching staff and 102 support staff working in the University. The campus is spread over 67 Acres of land with following built up area.

- Academic and administrative Blocks: 2,46,000sft
- Workshop: 50,000sft
- Hostel: 64,000sft
- Staff quarter: 20,000sft
- It has also created sports and recreation facility inside the campus of 2,60,000sqft.

#### **Key Initiatives**

- i. CUTM signed MOU with NSDC on Premium Skilling Programme

This MOU was signed on 13<sup>th</sup> day of September 2024 by and between National Skill Development Corporation and Centurion University of Technology and Management, Andhra Pradesh, the parties aim to work together in launching a “Premium Skilling” program on various tools and software’s that are oriented to future skills and future jobs.

Centurion University AP has developed deep understanding and experience in such new age skills and has identified a set of 18 new age skills such as blockchain, Cloud Computing, Digital Manufacturing, ARVR & Metaverse, Genetics and Genomics, Chip Making, Drone Technology, IIoT, EV Design, BIM, Virtual Twin City, etc. which are focused on creating products, Ips and promote start up economy and have shared a vision with NSDC which would contribute to the support system of the economic drivers by bridging skill gaps, creating job opportunities, and enhancing innovation and technology adoption in skill ecosystems.

- ii. The University has signed MoU on 19<sup>th</sup> December with SEEDAP as knowledge partner to collaborate on Skill development programme for farmers. The partnership aims to enhance agriculture best practices, conduct advance research and improvement market linkages for farmers in the state of Andhra Pradesh.



- iii. Centurion University of Technology and Management, Andhra Pradesh has established a Remote Pilot Training Organization (RPTO) under the authorization of Directorate General of Civil Aviation (DGCA), New Delhi for imparting Remote Pilot Certification for Rotorcraft RPAS Small Class Drones on 26th April 2024 for a period of 10 years.
- The RPTO has 2 type certified training drones, 5 flight simulators, 1 flight planning room and 2 flying strips to impart the remote pilot training.
- So far, 10 candidates have successfully obtained Remote Pilot Certification from the RPTO.

### **Collaborative Work with Social Entrepreneurial Outreaches**

#### **a. Gram Tarang Technologies (GT Tech)**

Founded in August 2018, GT Tech provides tech solutions for industries like Automotive, Agriculture, Mining, and Construction. It specializes in Industry 4.0, digital manufacturing, and automation, partnering with companies like Dassault Systemes, Ashok Leyland, and Hyundai. GT Tech excels in product design, simulation, and digital transformation, while also working in electric vehicle manufacturing and agricultural automation. It has trained over 1 lakh students in high-demand skills across Andhra Pradesh and Odisha.

#### **b. Gram Tarang Inclusive Development Services Pvt. Ltd. (GTIDS)**

GTIDS, a certified Agri-Fintech company founded in April 2011, operates in Southern and Eastern India, focusing on banking, financial inclusion, and agricultural technology. With a customer base of 2 crores, it deploys 5,000 BC Agents across 10 states, working with 9 nationalized banks. GTIDS has created a Mudra Loan Portfolio of 500 Crores, benefiting over 1.6 lakh small businesses, and facilitates 1.5 million transactions worth Rs. 2000 Crores monthly through its fintech app.

Specializing in Drone Farming, GTIDS operates 90 drones across 27 clusters in multiple states, offering spraying services to farmers. It also conducts drone imaging projects, such as:

- Rejuvenation of 100+ water bodies for Bhubaneswar Municipal Corporation.
- Imaging of 15,000 acres of paddy fields in Karnataka for BAYER Health Science to optimize water use and improve yield.
- Agricultural land surveys in Andhra Pradesh and Uttar Pradesh.
- Power transmission line inspections for Odisha Power Transmission Corporation using thermal imaging drones.

#### **c. Go Green Agritech Solution International Private Limited**

The new startup, in the process of being incubated within Centurion University of Technology & Management is **Go Green Agritech Solutions International Private Limited**.

Green Agritech Solutions is conceived as an EoU, to design, develop and deliver affordable, appropriate and relevant technology-based solutions for climate-resilient and disaster-proof farming and cultivation across the globe. This company is being setup within our campus located

in Vizianagaram, in Andhra Pradesh and is specifically established to cater to the international market only.

We have established a strategic Memorandum of Understanding (MoU) with our partner, Advent Group in Australia, under which we have a comprehensive buyback agreement for all our products, including domes, trellises, and dome covers. Advent Group also supplies us with essential raw materials that possess specific tensile strength characteristics not available in India.

- d. SMO training and production center: The Apparel training and Production center caters to training of women in neighboring villages and created employment opportunity for them. The unit has got collaboration with Brand studio to manufacture apparel and made a business of Rs.25 lakhs as on date.
- e. Centre of Excellence
  - o Blockchain area with Avalanche/ICP and IBW  
The School of Engineering hosted a blockchain workshop and Hackathon with 250+ students and is organizing a 3-day Hackathon during IBW 2024. The University's advanced labs and IBW 2024 participation showcase its focus on innovation and emerging technologies, preparing future leaders in tech and blockchain
  - o Communication System area with BSNL  
Aims to provide skill training in the area of telecommunications services, including voice, data, and internet communication
- f. Tissue Culture  
The centre for plant tissue culture & vegetative propagation was recognized by the Department of Biotechnology, Ministry of Science & Technology, GOI to produce more than five lakh TC-raised banana plants. The centre of 10 lakh plants is producing 5 lakhs TC banana plants at present.
- g. The School of Paramedics screened 3000 people, distributed 1200 free spectacles, and organized 8 workshops and 15 camps. It also marked key health observances and runs "Health on Wheels" for village check-ups.

#### **Other Initiatives;**

- h. The University has been pioneer in implementing innovative curriculum that align with the current NEP 2020 model. The UG program follows a multidisciplinary approach and provides opportunity for multiple entry and exit options with Academic Bank of Credits (ABC).
- i. We have uploaded all degree certificates in NAD Digi locker till 2023 pass out batches and degrees of 2024 passing out batch will be uploaded after the convocation.
- j. As a commitment to SDGs, we are working on SDG 1,3,4 & 17 and applied for Times Higher Education Social Impact Ranking.
- k. The School of Management held BIZFEST 2.0 with 126 participants and cash prizes for winners.
- l. The plan to establish the School of Nursing and School of Physiotherapy is scheduled to commence operations from the academic session of 2025. We have signed MoU with Sri Sai Super specialty

Hospitals, Sri Sai PVR Hospital, Gayatri Hospital, Queens NRI Hospital and Kashvi Hospital for clinical practice.

- m. The University has established **Indian Knowledge Systems (IKS)** with an objective of fostering a deeper understanding of traditional Indian knowledge systems, including languages, arts, philosophy, and more. Several key proposals have been put forward to establish collaborations with institutions and universities to further the reach of IKS. Notable among these are:

- **MoU with Central Tribal University:**

**Objective:** To preserve and promote tribal art forms, culture, dance, music, and oral traditions, the IKS body has proposed an MoU with the Central Tribal University. This collaboration will provide a platform for tribal communities to present their unique art forms, cultural practices, and heritage.

- **MoU with M.R. Government Sanskrit College** located in Vizianagaram

**Objective:** This MoU aims to collaborate with a renowned Sanskrit College to present seminars, workshops, and lectures on Hindu Vedas and other traditional texts. This partnership will ensure that ancient Indian knowledge systems such as Vedic philosophy, Sanskrit literature, and ancient sciences are disseminated through academic and public engagement.

**n. National Cadet Corps (NCC)**

A NCC Platoon has sanctioned in our university on 14<sup>th</sup> December February 2023 Under 2 (A) CTR NCC unit, Visakhapatnam with a Cadet Strength 56

**Achievements:**

Our cadets actively collaborated with the **Police Department** during the **General Elections in Andhra Pradesh**, providing invaluable support.

All Cadets were participating in various community engagement programs and social service programs like Voter Education and awareness programs, Avoid Plastic, Anti-tobacco, Save Girl child, Blood donation Programs, Plantation programs, Swacch Bharat Abhiyan programs etc.

**o. Incubation Centre**

CUTMAP's Business Incubation Centre focuses on manufacturing, services, education, and agriculture. It has supported startups in drone manufacturing, plant trellis production, and IT services. The centre organizes ideathons, hackathons, and startup events to foster entrepreneurship.

Additionally, the centre runs a skill development program, training youth in both traditional and new technologies, creating employment and self-employment opportunities to improve livelihoods in Vizianagaram and surrounding areas.

- p. **Awards and Recognitions;** 22 students have won medals and prizes in events like; Commonwealth Weightlifting, Photography, Hackathon and IEEE Rapid innovation challenges.

**q. Teaching and Quality Assurance**



- The University's curriculum focuses on hands-on experience to develop industry skills for jobs, higher studies, and entrepreneurship. It emphasizes project-based learning, design thinking, problem-solving, and analytical skills. Continuous assessments track learning outcomes, and annual academic audits improve the teaching-learning system.
- Student specific action plans for timely graduation and realization of career objectives are used as tools for mentoring by the faculty. Mentors are assigned to closely monitor and support the students in their efforts.
- The University conducts paper less examination through Tab and provides remote access to faculty for online evaluation of answer sheet and submit marks from any location. The University has created a question bank that allows EMS to select questions at random and set for the examination and it is periodically updated. It has reduced consumption of papers, storage space and challenges confidentiality.
- Teaching and Learning; Centurion University has focused on 'hands-on', 'experience based', 'practice oriented' learning that creates transformative impact through community centric innovation and action research. While promoting Nano, Mini and Micro Enterprises, the University works toward learning experiences that are 'quantifiable', 'sustainable', 'scalable' and 'replicable'. University has both built and participated in building eco-systems that include and integrate the community around it's campuses and beyond, industry, entrepreneurs and other education institutions. Its education and training delivery approach is:
  - Skill Integrated and Employability Linked Teaching/Learning Process
  - Focuses/Leverages Industry and Community Partnerships
  - Creates/co-creates Enterprises
- Domain/Smart Engineering/WoW Projects: Real-World Problem Solving
  - University conduct Hackathon and Bootcamp promotes Project Based learning as part of Domain/Smart Engineering Project/WoW projects, which focus on addressing **industrial challenges** and problems aligned with the **Smart India Hackathon (SIH)** framework.
- Tech-Talk: Uniting Talent Under One Roof
  - The **Tech-Talk initiative** serves as a vibrant platform to nurture creativity and innovation through **self-paced learning**. By bringing together diverse talents, the program inspires students to explore, innovate, and excel in areas of their interest while contributing to a collaborative environment.
- Industry certification
  - Students are encouraged to learn the current technology and get industry certified. 25 students got NPTEL certification, 19 got CP certification by AWS, 115 students got Azure cloud certification, 400+ got AWS skill builder certification, 200+ students undertaken AICTE internship. 2 faculty got Wipro talent certification (Java).
- **Clinica Practice**; Students of School of Paramedic get hands-on experience through 3 days in a week clinical practice in associated hospital and internship of 6months to 1 year duration. Practicing Doctors are engaged to teach as Professor of Practice.

**r. Conferences and Seminars**

During the year, 13 number of workshops and conferences were organised by the University.

**s. Social Outreach Programme**

The CSR team has successfully conducted around 20 no. of outreach activities, promoting awareness, culture, and community engagement. These events include World Environment Day 2024, Kargil Vijay Diwas, and a Blood Donation Camp by Rotary Club, alongside the Ek Ped Maa Ke Naam - Swach Centurion initiative and the Nasha Mukta Bharat Abhiyan. Celebrations such as Independence Day, Diwali, Ganesh Chaturdhi, Kartheeka Deeparadhana, and Christmas Celebrations fostered cultural and national pride. Awareness programs like Photography Day, Indian Space Day, International Men's Day, Session on Drug Abuse and Addiction, encouraged education and social responsibility.

**t. Placements and Higher studies**

Out of 241 students, 195 students are eligible to get degree.

145 students were interested in jobs and 96 for higher studies.

128 students got placed.

Placement %; 88%.

The highest salary was 50 LPA and 2<sup>nd</sup> highest was 34 LPA.