Centurion University
Shaping Lives...
Empowering Communities...

CENTURION UNIVERSITY

VIZIANAGARAM

CONSPECTUS

Co-Creating opportunities

SCHOOL OF ENGINEERING AND TECHNOLOGY

Centurion University
Shaping Lives... Empowering Communities...

CHANGE

Change the world – The university and our students must transform societies – change begins with us.

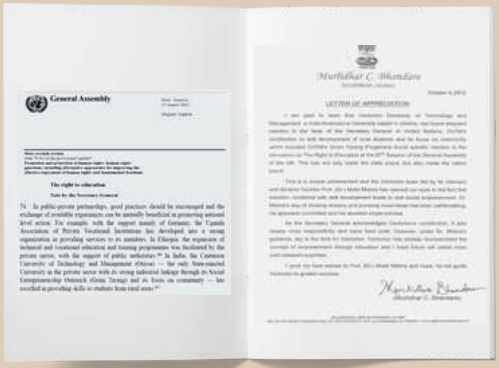
EXPERIENCE

Experience the world – The perfect balance of knowledge and skills is the key to making a real difference.

LEARN

Learn the world – Lifelong learning is an extension of classrooms, books, and theories.

WHY CENTURION UNIVERSITY IS THE BEST IN THE SKILLING ECOSYSTEM

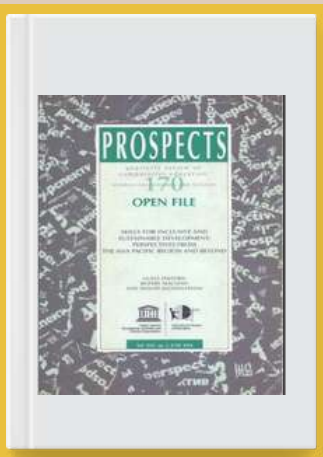


UN RECOGNITION

Centurion University cited prominently by name – which is a rarity – in the UN General Assembly Report by the Secretary General on Right to Education, for the University's unique education model.

UNESCO CASE STUDY

Recognized in the UNESCO Publication for its unique and scalable skill training education model.



SKILL INTEGRATED HIGHER EDUCATION

Centurion University lauded for its unique and exceptional model in skill integrated higher education in the **Report of the Sub-Group of the Chief Ministers on Skill Development**

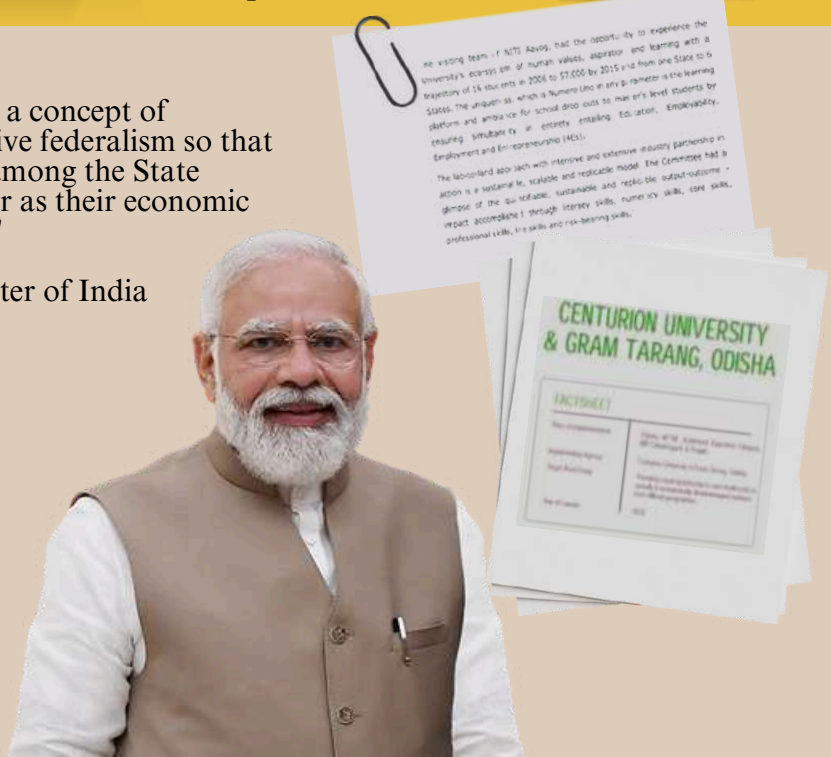
Skill India
कौशल भारत-कुशल भारत

STATE FORWARD

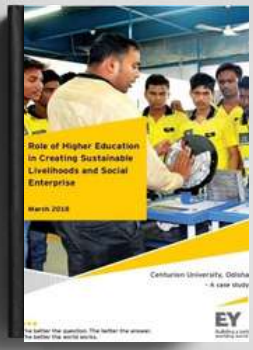
SF REPORT NITI AAYOG

"I am trying to create a concept of competitive cooperative federalism so that there is competition among the State Governments in so far as their economic growth is concerned."
- **Shri Narendra Modi**
Hon'ble Prime Minister of India

Centurion University is the **ONLY University** mentioned in the '**Best Practices of Our States**' **SF Report of NITI Aayog**



WHY CENTURION UNIVERSITY IS THE BEST IN THE SKILLING ECOSYSTEM



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ERNST & YOUNG REPORT CASE STUDY

BRITISH COUNCIL REPORT MENTION

Centurion University is the ONLY University mentioned in the British Council Report on, 'Social Enterprise in a Global Context

WORLD BANK RECOGNITION

The World Bank highlights the uniqueness of Centurion University in terms of its skill-integrated higher education model.

Centurion University is the ONLY University privileged to represent the Skills & Higher Education Sector on the 'World Skill Day' to be part of the Launch of the National Skills Development Mission by the Hon'ble Prime Minister, Mr Narendra Modi, where most of the Chief Ministers and Cabinet Ministers were present

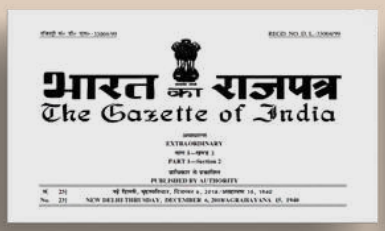
RECOGNITION BY MSDE & NSDC

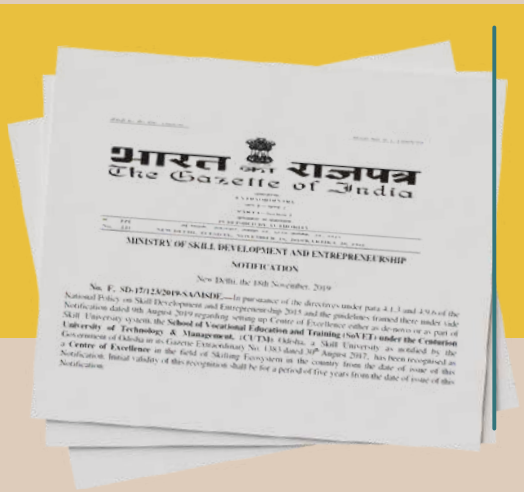
REC

WHY CENTURION UNIVERSITY IS THE BEST IN THE SKILLING ECOSYSTEM

Centurion University is the FIRST university in India to be awarded the status of Assessment and Awarding Body pan-India by the Government of India.

FIRST UNIVERSITY IN INDIA
ASSE*S*S*MENT AND AWARDING BODY

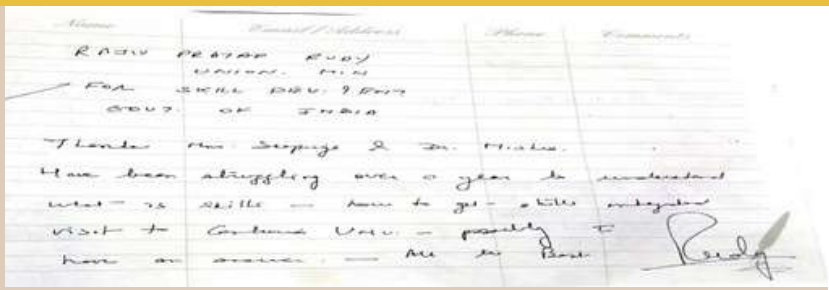

भारत का राजपत्र
The Gazette of India


भारत का राजपत्र
The Gazette of India
MINISTRY OF SKILL DEVELOPMENT AND ENTREPRENEURSHIP
NOTIFICATION

Notified as 'CENTRE OF EXCELLENCE' of Ministry of Skill Development and Entrepreneurship, Government of India.

CENTRE OF EXCELLENCE'

Acknowledgment of Centurion University by the Hon'ble Union Minister of Skill Development as a model to reckon with!




Jason Clare MP
An awesome surprise. Yesterday I met up with students from Wadeye in the NT, here in India studying textiles with Centurion University @CUTMedia

Centurion University, congratulated by the Minister of Education (Australia) for the extraordinary accomplishment and feat to successfully deliver long-term skill training course to the First-Nation community of Australia.


MoU Signing Ceremony


MARCHING TOWARDS A SKILLED INDIA

Centurion University is prominently acknowledged in the report of MoSDE, Government of India, on Marching Towards A Skilled India

CENTURION

GLIMPSES

1700+
Students

6
Schools

150+
Skill Courses

22
Research Centers

64
MoU with Health Sector

30
Patents

60+
Faculty

540+
Pulications

Centurion University

ABOUT THE

UNIVERSITY

Centurion University of Technology and Management (CUTM) is a pioneering institution in India, recognized for its transformative approach to education that integrates academics, skill development, and hands-on learning. With multiple campuses across vizianagaram , the university is committed to fostering innovation, social entrepreneurship, and industry-aligned training. Centurion University has been acknowledged by prestigious organizations such as the United Nations, NITI Aayog, British Council, and UNESCO for its unique education model that prioritizes experiential learning, employability, and community engagement. The institution boasts state-of-the-art laboratories, industry-sponsored research centers, incubation facilities, and smart classrooms, creating a dynamic ecosystem for learners. Beyond academics, CUTM promotes sustainable development, rural engagement, and technology-driven solutions, offering over 150+ skill courses, 16 schools, and 11 Centres of Excellence. Its vibrant campus life includes sports amenities, innovation hubs, and entrepreneurship cells, ensuring holistic student growth. As India's first 'Skills University', Centurion University continues to lead in higher education by producing socially responsible, industry-ready professionals.


Rayagada


Chatrapur

Bhubaneswar


Balasore


Paralakhemundi


Bolangir

SCHOOL OF ENGINEERING AND TECHNOLOGY

AT A GLANCE

The School of Engineering and Technology (SoET), founded in 2017 at Vizianagaram campus and is a premier institution dedicated to excellence in technical education, research, and innovation. It offers diverse programmes, including B.Tech in **Computer Science, Mechanical, Electronics, and M.Tech BCA, MCA along with Ph.D. programmes** across various disciplines.

VISION

A globally accredited human resource centre of excellence catalyzing sustainable livelihoods in the less developed markets across the globe.

MISSION

Provision of quality, globally accredited academic programmes in technology and management. Provision of globally accredited employability training for less endowed segments of the population. Promotion of entrepreneurial culture and enterprise in the target areas. Facilitating improved market access to goods and financial services to the target population. Promotion of lighthouse project interventions in the target area.

THE IDEAL CENTURION

7 PRINCIPLES

- Not afraid to be innovative- imaginative- creative,venture into unknown territories- A true lifelong adapter,learner and practitioner.
- In the know of what she/he does, both the “theory andpractice” & “words and actions”.
- Practices cutting edge technologies, uses ALL availableresources for learning through classroom, field, practice as well as internet & new tools.
- Positive, confident and is infectious in her/his enthusiasm and be willing to be a job creator than a job consumer.
- Has empathy for community, practices eco-friendly policies and capable of changing the environment around her/him.
- Believes in CHOICE, exercises CHOICE when given and is willing to be a team player and leader.
- To aspire to be a responsible and productive citizen tocontribute in Nation Building and contribute inprotecting and preserving the Mother Nature.

PROGRAMMES OFFERED

- B Tech in CSE (AIML)
- B Tech in CSE (Data Science)
- B Tech in CSE (IOT & Cyber Security With Block Chain Technology)
- B Tech in CSE (Bioscience)
- B Tech in CSE(Software Engineering)
- B Tech in CSE (Computer Networking)
- B Tech in Computer Science Engineering
- B Tech in Electronic and Communication Engineering
- B Tech in ECE (Industry integrated)
- B Tech in ECE (Bio medical)
- B Tech in Mechanical Engineering
- B Tech in Mechanical Engineering (Automobile)
- B Tech in Mechanical Engineering (Additive Manufacturing)
- BCA
- MCA
- M Tech
- Ph D

3D Printing

Additive Manufacturing

Augmented Reality /Virtual Reality

PROGRAMMES OVERVIEW

UG Programme

B.TechDuration: 4 years
Eligibility: In order to be eligible foradmission into Bachelors in Technology astudent should have passed +2 Scienceexaminations or Diploma.
1.10+2 (Physics, Chemistry, Math) 50%
2.5% relaxation for reserved category
3.Centurion University Entrance Exam(CUEE) Score

BCA Duration: 3 / 4 years
Eligibility: In order to be eligible for admission into the Bachelor of Computer Application, a student should have passed +2 examination or a Diploma with Mathematics

PG Programme

MCA Duration: 2years
Eligibility: In order to be eligible for admission into the Master of Computer Application, a student should have passed BCA or any Bachelor's degree with Mathematics at 10+2 Level or the Graduation Leve

M.Tech Duration: 2 years
Eligibility: In order to be eligible for admission into Masters in Technology a student should have Bachelor's degree.
1.B.E./ B. Tech in relevant subject with 60% or equivalent CGPA + Admission through GATE or any other equivalent exam or through appropriate experience

Ph.D. Eligibility: In order to be eligible for admission into Doctor of Philosophy a student should have passed GATE,URET,CSIR,UGC-NET screening through Centurion Entrance Test/ Interview

CAMPUS CONNECT

Centurion University hosted a 4-day Avalanche Bootcamp and Workshop, organized by Avalanche India and CUTM's Blockchain Community ("Campus to Crypto") The event brought together students, developers, and blockchain enthusiasts eager to deepen their understanding of Avalanche's technology ecosystem.

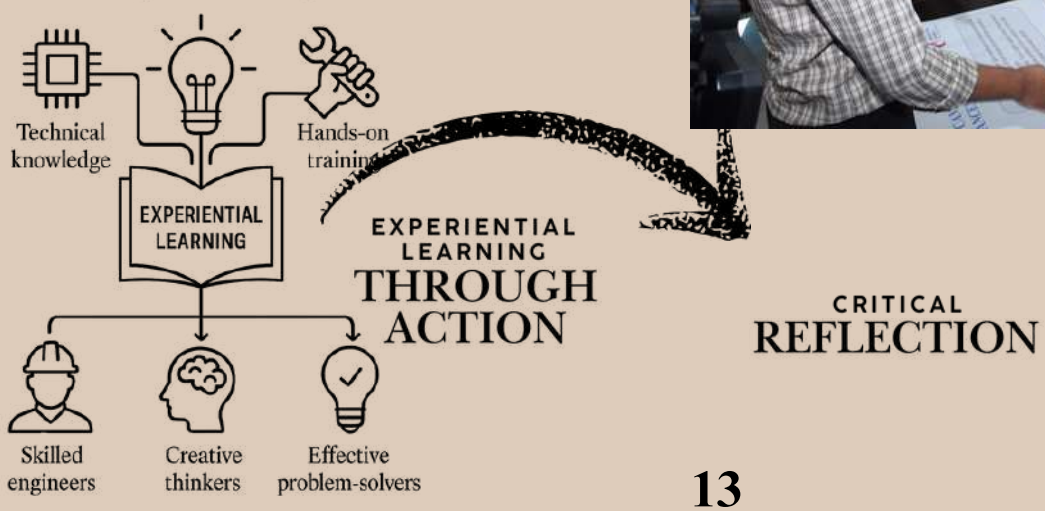
HACKATHON and BOOT CAMPS

Bootcamp -Turning Passion into Profession

The Hon'ble Minister of Civil Aviation recently visited Centurion University and commended the institution for its contributions to innovation and skill-based education. During the visit, special attention was given to the Department of Electronics and Communication Engineering (ECE), where the Minister interacted with faculty and students showcasing cutting-edge projects in embedded systems, IoT-based aviation communication, and antenna design for aerospace applications. The Minister appreciated the department's focus on practical research and its alignment with national priorities in aviation technology and digital infrastructure.

Draped in professionalism yet brimming with creative energy, the ECE students stood by their carefully crafted projects — fruits of months of relentless effort, late-night brainstorms, and burning curiosity. With eyes gleaming and voices confident, they showcased to the world what the future of technology looks like when it springs from the minds of young dreamers.

From IoT-enabled smart irrigation systems to AI-powered surveillance drones, from wearable health monitors to automated traffic control solutions, the projects reflected a perfect blend of technical depth and societal relevance. The Honourable Minister, impressed by the talent and clarity of thought, took keen interest in every innovation, pausing to ask questions, share insights, and encourage the budding engineers.



IMPROVED ACTION

Armed with this expertise, they are prepared to innovate, lead, and make a lasting impact on society.

REFLECTION

This dynamic learning environment nurtures innovation and technical excellence, empowering students to tackle global engineering and technological challenges.

ACTION

Students gain hands-on experience through 48 state-of-the-art labs, exploring technologies like AI, robotics, and renewable energy while engaging in real-world engineering applications. Innovation hubs such as the IoT lab and automation center equip them with industry-relevant and entrepreneurial skills. Internship and project-based learning initiatives immerse them in practical problem-solving, fostering solutions to real-world technological challenges.

SoET

BEYOND BOOKS, INTO REALITY

TRACEABILITY OF LEARNING

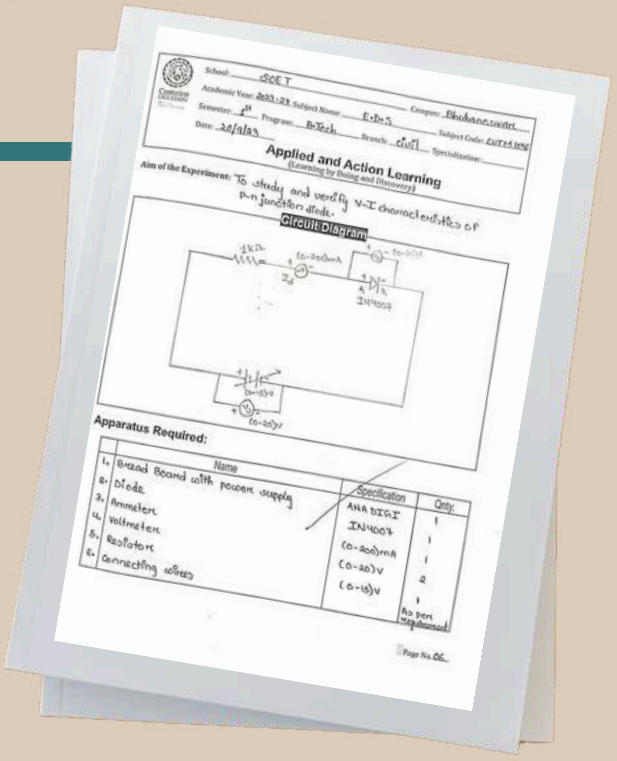
ASSESSMENTS REFLECT NOT ONLY KNOWLEDGE BUT ALSO THE APPLICATION AND PROGRESSION OF SKILLS.

Traceability of learning refers to the systematic process of monitoring, recording, and evaluating a student's academic and practical progress over time. It ensures transparency and accountability in education by documenting continuous assessments, practical work,and reflective learning.

Continuous evaluation through
Assignments
Presentatíons
Internal evaluations
Group discussions

Practical knowledge is assessed through hands-on experiments, field visits, and lab work

Students maintain learning records documenting the key takeaways from lectures, practical sessions and discussions



INTEGRATION OF DOMAIN AND SKILL COURSES

- **Domain Courses:** Offer in-depth knowledge in fields like Artificial Intelligence and Structural Engineering, fostering analytical thinking about engineering challenges and advancements. **Skill Courses:** Emphasize hands-on expertise in
- areas like robotics, cybersecurity, renewable energy, and industrial automation, ensuring holistic development and employability.

ENHANCED SKILL SET

MULTIDISCIPLINARY PROFICIENCY

75+ SKILL COURSES

The School of Engineering and Technology offers 75+ skill-based courses designed to equip students with hands-on expertise, entrepreneurial abilities,and industry readiness in engineering and technology. These courses focus on fostering innovation, sustainability, and self-reliance among students.and industry readiness in engineering

Immersive Training and Simulation

Integration of Cutting-Edge Technologies in Engineering

Our School incorporates advanced technologies like Artificial Intelligence (AI), Internet of Things (IoT), and Virtual Reality (VR) to transform engineering practices. This innovative approach equips students with the skills to develop smart systems, optimize efficiency, and solve complex engineering challenges through technology- driven solutions.

Enhanced Learning Experience:

Immersive AR/VR tools simplify complex engineering concepts, making them easier to grasp and apply. Technology Proficiency: Students gain hands-on experience with cutting-edge AI-driven tools and AR/VR platforms used in modern engineering.

Pre Cast Concrete Manufacturing

Experiential Learning through Production

Electric Vehicle Design
3D Printing
Wood Engineering
Pre Cast Concrete Manufacturing
Drone Manufacturing

Industrial Automation

Students develop skills in automation, IoT, and data analytics to meet modern industry demands.

The Industrial Automation lab equips students with practical knowledge in automation, IoT, and data analytics, preparing them for the evolving demands of modern industries. Through hands-on training, they learn to design, program, and optimize automated systems, gaining expertise in smart manufacturing, process control, and real-time data monitoring for enhanced efficiency and productivity.

ACTIVE LEARNING THROUGH MARKET LINKAGE

Our School incorporates active learning through industry-oriented facilities such as the CNC Laboratory, Industrial Automation, Advanced Testing and Calibration Laboratory, Dome Facility, Small Category Drone Training, Agricultural Spraying using Medium Category Drone, and Poly House Automation Setup. These initiatives provide students with hands-on experience, enabling them to understand and address real-world engineering and technological challenges.

STUDENTS COLLABORATE WITH INDUSTRY LABS TO DEVELOP INNOVATIVE ENGINEERING SOLUTIONS AND CONNECT TECHNOLOGY TO REAL-WORLD APPLICATIONS.

Our School incorporates domain-focused courses to equip students with multidisciplinary expertise and a comprehensive grasp of engineering and technology. These courses blend core engineering principles with emerging technologies and industry trends, preparing students for dynamic careers in academia, industry, and entrepreneurship.

DOMAIN COURSES

This integration provides students with advanced technical expertise, creative problem- solving abilities, and the skills to tackle complex challenges in engineering and technology sectors.

AERIAL SURVEYING AND REMOTE SENSING

Impact on Students

By integrating these domain courses, students gain:

- Technical Proficiency: Mastery of advanced engineering tools and technologies. Entrepreneurial Skills:
- Knowledge to develop and manage tech-driven ventures. Sustainability
- Awareness: Ability to implement eco-friendly engineering solutions. Multidisciplinary Perspective:
- Competence to tackle global technological challenges.

RESEARCH FACILITIES

INTEGRATED WITH 15 RESEARCH CENTERS

- Centre for Computational Mathematics
- Centre for Smart Engineering Applications
- Centre for EduTech & SkillsTech
- Centre for Smart Infrastructure
- Centre for Waste to Wealth Management
- Centre for FinTech
- Centre for Design & Manufacturing
- Centre for Communication Technologies
- Centre for Space and erth Sciences
- Centre for Manufacturring
- Centre for Chip Making
- Centre for Smart Agriculture
- Centre for Digital Manufacturing
- Centre for Drones
- Centre for Data Science and Machine Learning
- Centre for Space and Earth Sciences

Learning

ADVANCING RESEARCH, PUBLICATION, AND ACADEMIC EXCELLENCE

With 490+ articles published in Scopus and Web of Science (WoS) indexed journals, the school actively contributes to advancements in engineering innovation, smart technologies, and sustainable infrastructure development.

SoET students have excelled in various academic and professional arenas, earning accolades at national hackathons, tech events, and gaming competitions. These achievements showcase their innovation, technical expertise, and problem-solving skills in engineering and technology.

These accomplishments highlight the school's focus on quality education, technical excellence, and real-world applications, reinforcing Centurion University's commitment to shaping future leaders in engineering and technology

540+

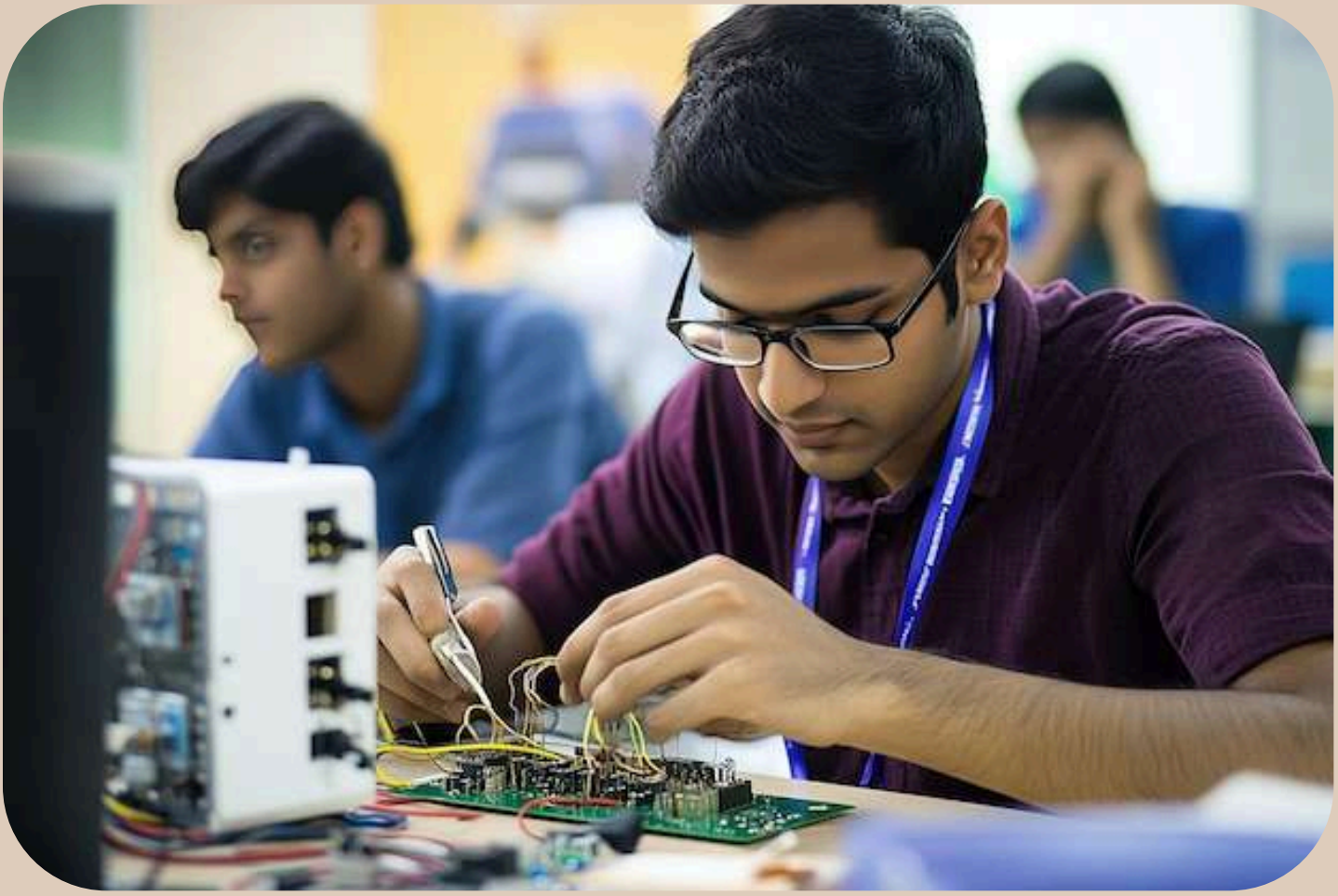
ELSEVIER Scopus

WEB OF SCIENCE

INDEXED JOURNAL

Cutting-Edge
TECHNOLOGIES

Students conduct experiments to analyze materialproperties. Training aligns with industry standards forquality assurance.The Advanced Testing and Calibration Laboratoryprovides students with hands-on experience in analyzingmaterial properties and ensuring precision inmeasurements. This facility is equipped with industry-grade instruments, allowing students to conductexperiments that align with quality assurance standards.Through practical training, they develop expertise intesting methodologies, calibration techniques, andreliability assessment, preparing them for careers inengineering and manufacturing.



Cutting-Edge
TECHNOLOGIES

Chip Designing

This trains students in creating and simulating microchips, fostering innovation and expertise in semiconductor technology.

SoET is actively engaging students in advanced chip designing to drive innovation in semiconductor technology. This initiative focuses on developing expertise in microchip creation and simulation while providing hands-on experience with cutting-edge design tools. Students are trained in circuit modeling and fabrication techniques, gaining practical skills in semiconductor processing and electronic system optimization.

COLLABORATION

CREATING OPPORTUNITIES TOGETHER

MAJOR RECRUITERS

JSW · Tech Mahindra · IBM · BOSCH · HUAWEI · Capgemini

adani · Mindtree (Welcome to possible) · accenture · YAMAHA · HCL · EICHER

Godrej · ASHOK LEYLAND · DASSAULT SYSTEMES · Gram तरंग · TCS TATA CONSULTANCY SERVICES

YOUR PATHWAY TO PROFESSIONAL SUCCESS.

UNLOCKING OPPORTUNITIES

SECURING FUTURES

SCHOOL OF ENGINEERING AND TECHNOLOGY

100%

PLACEMENT ASSISTANCE

INNOVATION IN ACTION

STUDENT-FACULTY INITATIVE

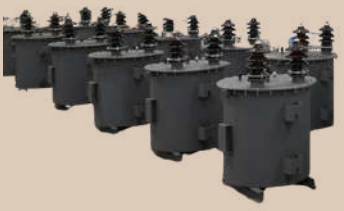
O U R P R O D U C T S

Waste to wealth

Wood Engineering

3D Printing

Paver



Transformers

E-Vehicle

Precise Machining

ADVANCING SUSTAINABLE DEVELOPMENT GOALS

THROUGH CENTURION CARES

C

Community Engagement

We build resilient communities, promote well-being, drive sustainable industrial practices, and support climate action through grassroots involvement.

Aligned SDGs:

A

Academics

Our curriculum is purposefully tailored to-foster quality education, ensure gender equality, and promote decent work and economic growth through inclusive and future-ready education.

R

Research

We champion cutting-edge resarch that fuels solutions for clean energy, innovation, environmental conservation, and sustiainable develop-ment.

Aligned SDGs:

E

Entrepreneurship

Centurion empowers entrepreneurs to create impact-driven enterprises that advance inclusivity, sustainability, and resilience in both local and global economies.

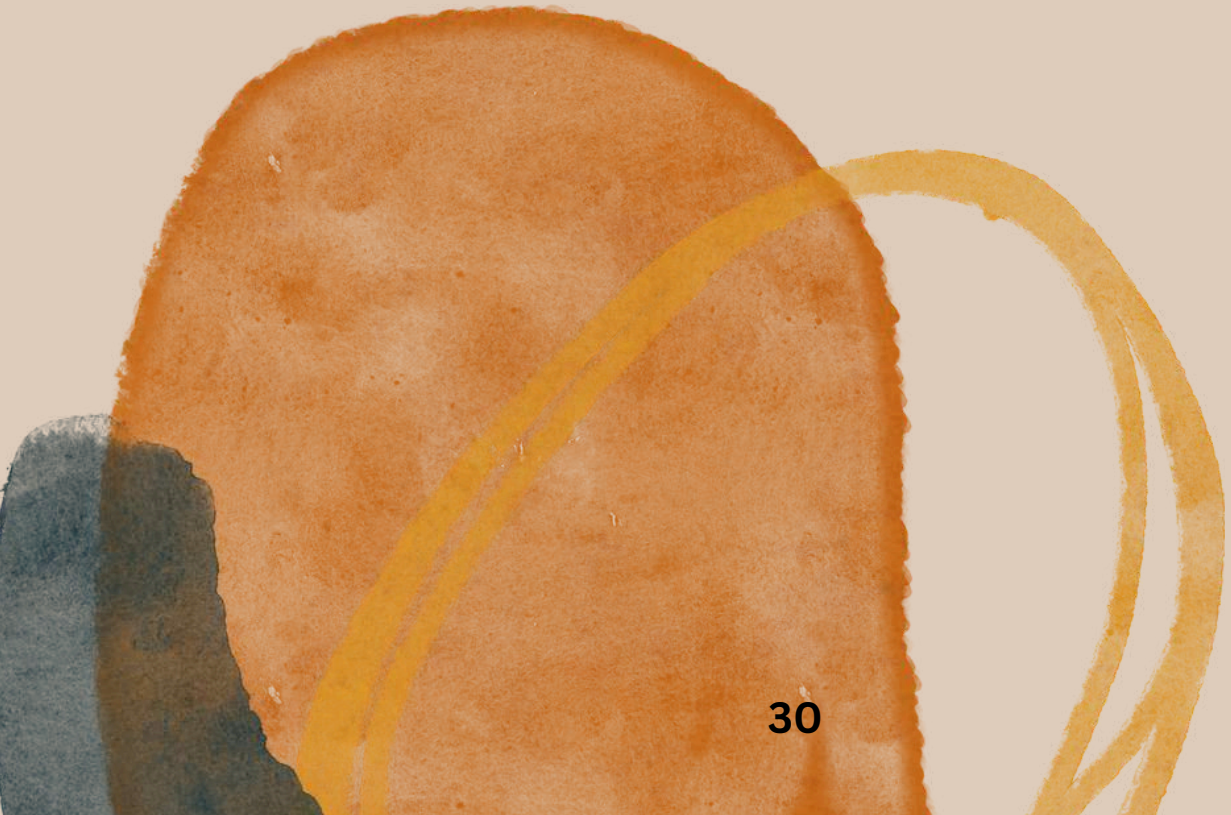
Aligned SDGs

S

Social Impact

We are dedicated to creating a just, equitabe, and inclusive society through initiatives th tackle hunger, inequality, peace-building, and partnerships for globalgoals.

Aligned SDGs:



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

CENTURION UNIVERSITY

VIZIANAGARAM

SCAN TO EXPLORE CUTM

http://

www.cutmap.ac.in

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Viziznagaram -535003 AP