



Centurion
UNIVERSITY

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

SDG 4 | Report on Quality Education

SDG 4

REPORT 2021



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I. Targets



World Skills

The skills integrated education model of the University has resulted in representing the country in the area of CNC Turning in the World Skills Competition at Germany in the year 2022. The University targets to replicate the same (with more numbers) for the 2024 Competition scheduled in France.



Work Integrated Flexi Program

Centurion University strives to provide an inclusive environment providing an opportunity for all, including those who are at the bottom of the pyramid. The University offers skill-integrated education to the blue-collar sector enabling them to climb up the corporate ladder. The University through its social entrepreneurial outreach has enrolled 12000 students in Flexi-courses of ITI, D.Voc, and B.Voc programs with relevant industry partners. The University targets to increase the enrolment by 20% aligned to National Credit Framework and National Education Policy 2020.



Women Empowerment

Centurion University strives to empower women across the country by offering courses and training programmes that enable them to earn a livelihood and live an independent life. As an example of this endeavour, the University has trained 714 women in Sewing Machine Operator under Skill Impact Bond scheme. It has set a target to increase the number to 1000 by the end of the year 2023.



Literacy across the education echelons

Centurion University is a one-stop education destination offering formal and skill-integrated learning from Kindergarten to Doctorate. The most recent addition to its basket of programs is a School of Nursing, which will admit students in the academic year of 2023.



II. The Context of Centurion University

Centurion University of Technology and Management (CUTM) always strive for excellence in all domains. The out turn of the same is manifested in how quality is assured which exhibits to strong orientation toward several criteria. Academic Administrative Audit (AAA) is a cardinal tool that exonerates the overall academic and administrative diegesis of the university as a whole. To eliminate prejudice the AAA is executed by objective people who are deputed from other campuses of CUTM. The delineation of the report of the AAA team is transformed into a strong action plan which CUTM expeditiously and holistically attempts to resolve. Quality assurance is a perpetual process which CUTM takes into a closed-loop system by continuously exalting teachers and students potential through conferences, seminars and workshops on quality. In the span of five years; 2015-2020 there were several different sessions on issues that were considered imminent from the perspective of quality assurance. Stress management is an impending issue that was dealt with through an exclusive FDP followed by counseling. Research impetus is oriented by FDPs on Patents, research proposal writing among others. CUTM believes in egalitarianism and gender parity. It is manifested through FDPs on gender sensitization. A drive for probity is ensured by FDPs on ethics and human value. The teaching methods of a teacher is validated by other in a subject called microteaching which CUTM always tandems to through workshop and FDPs. Exposure is a term that signifies openness and openness in terms of academia that's where CUTM is greatly aggrandized. The exposure CUTM inculcates is not academic based only but truly action based. Each of the schools at CUTM is integrated with on par excellence institute For Example School of paramedics is associated with Kar Vision University, Bhubaneswar. However, with these associations CUTM orients to action-driven and output based that's why CUTM finds itself in collaboration with university of great eminence across the globe. In the United States CUTM has associated with the University of California, In the UK it is the University of Plymouth, In France it is Leonard De Vinci and ICD Business school, In Australia, it is RMIT, Deakin, Western Sydney, Victoria University to note a few off all across the world. The kind of association with these elite universities of the world is not limited to the exchange of students but to multifarious domains like recruitment of undergraduate and graduate students, research training, technology transfer, social entrepreneurship and many others. The cardinal motive of this association is to provide the students an exposure to cutting-edge research, technology and other happenings at these universities vis. a vis. ours.

Jagannath Padhi
Director,
Centurion University



1. Access to lectures and courses

1.1. Lectures:

All the University course are freely accessible to all through University`s open resource (<http://courseware.cutm.ac.in/>). The access to lectures is open to external students in a variegated approach. For example, there are some courses which are offered in collaboration with the government for the local communities. There are other specific tailor-made training programs which are offered to communities of scheduled castes and tribes.

1.2. Courses:

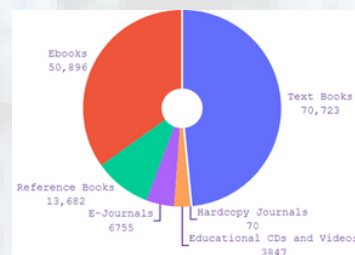
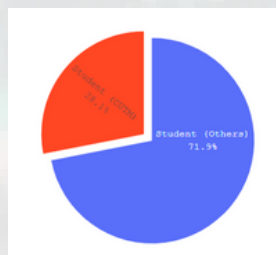
School of Paramedics and Allied Health Sciences in collaboration with Swasthya Swaraj Society (Bhawanipatna) is providing a Diploma in Community Health Practise to students belonging to tribal areas. After successful completion of the course, students become qualified to provide primary health services, reducing neonatal and maternal mortality rates of the local tribal community. Another outcome is to improve the educational status of children belonging to scheduled castes and tribes in order to empower communities.



1.3. Access to E-resources

E-Resources (<https://cutm.ac.in/library/e-resource/>)

- The University e-resources in the library is freely accessible to all outsiders being a partner of National Digital Library Mission of GOI in mentorship of IIT Kharagpur. (<https://ndl.iitkgp.ac.in/index.php>)
- The below graph highlights the library usage.



- All the PhD theses awarded by the University are housed in an open access database Shodhganga. This is a resource available nationally to all researchers (<https://shodhganga.inflibnet.ac.in/>)

1.4. Other programmes

Rama Devi Women University (RDWU) and Centurion University of Technology and Management (CUTM) entered into a MOU wherein CUTM was to provide skill training program to RDWU students.



A. An FSSAI registered mini dairy unit at Paralakhemundi campus provides training to all SC/ST students on raising milk breeding animals/Dairy farming. The unit distributes milk and milk products at cost price in the community with an aim to enrich nutritional levels.

2. Mushroom production unit on campus run by students train local youth. The unit produces paddy straw mushroom and oyster mushroom which is available for purchase at subsidized price. The unit in collaboration with Agricultural Technology Management Agency (ATMA: Government of Odisha) trains SC/ST students through various extension programs. Training on vermicomposting was provided at regular intervals to the residents of Gosani Block, Gajapati District.



C. The University in collaboration with National Centre for Farmer Health Deakin University Australia executed a pilot survey on farmer's life style and health assessment at Barlanda, Engersingh, Badigam.



Pretesting exercise of questionnaire and online data entry over the mobile

D. The University has undertaken project in collaboration with Himalaya Drug Company to cultivate medicinal crops such as Bhringaraj, Indian borage, Phyllanthus, Pashanabheda, Kasturi Bendi, Elephant creeper in Gajapati district for their replication under different agro-climatic zone. This project involved educating the rural youth on best agricultural practices and provided them with an employment assurance for a period.



Cultivation of Medicinal crops

E. The University also provides opportunity to collaborate on outreach programmes with International Organizations. Students from Universities of International repute such as Western Sydney University; Royal Melbourne Institute of Technology (School of Global Studies: Public Health and Nutrition); Deakin University (Bachelor of International Studies: Urban Micro Business Centre); Victoria University (Law and Justice: National Law University, Odisha); TAFE NSW (Diploma in Community Service) have successfully completed their programmes.



International Student Engagement

1.5. Skills Integration and Certification Program

Centurion University makes effort to reach out to community to up-skill the youth in advanced technologies leading towards entrepreneurship and employment. The following lists the details of the courses

Sl. No.	Courses	Course Description	Faculty Incharge	Pedagogy	Duration	Course Fee	Know More/Go for Registration Link	
1	Certificate in Product Life Cycle Management through Gate process	"Product Life Cycle Management", represents an all-encompassing vision for managing all data relating to the design, production, support and ultimate disposal of manufactured goods.	Laxmidhar Reddy	1-month online training and 15 days practice.	45 days	15000	Register Now	http://course
2	Certificate in 3D Modelling	This course is designed to learn CATIA that enables students to optimize their product design and engineering processes into innovative, efficient and time saving projects.	Sandip Kumar	1-month online training and 15 days practice.	45 days	15000	Register Now	http://course-course-on-3d
3	Certificate in Retail Sales	This course aims at sales supporting (non-merchandising) functions and current trends. It includes single-unit and multi-unit structures, receiving, marking, stock, warehousing, delivery, wrapping-packing, adjustments, credit, accounts payable, audit, security, workrooms, and personnel	Parle Kalyan Chakravarthy (Assistant Professor)	1-month online training and 15 days practice.	45 days	15000	Register Now	http://course
4	Certificate in	This is a certificate course aims	Deepak Kandher (Assistant	1-month	45 days	15000	Register	http://course

<https://cutm.ac.in/admission/school/skill-certificate/>



2. Community educational events are regularly held at the University;

1.1. Lectures:

1. Odisha skill competition: The Odisha skill competition which acts as a qualifier for India skills was hosted by the university in association with Odisha Skill Development Authority (OSDA). The competition was attended by students from different institutions, across different skills like wood works, automobile technology, health and social care and 3D game art.



2. Community action learning: The University aims to reach out to the community; a novel way of doing it is to integrate the classroom teaching with relevant needs of the community. A wide variety of problems are addressed for example,

A. To save the loss of human life and also to protect stray animals a Radium geo tagged collar was designed for stray dogs.



B. Towards eco-friendliness and to prevent use of plastics, biodegradable bamboo bottles and crafts were manufactured.



C. Free repair and maintenance of electrical home appliances.



D. Free Automobile Maintenance.



1.1. Agri Clinic and Agri-Business Centre (training program)

The Ministry of Agriculture and Farmers Welfare, Government of India, in association with NABARD has launched Agri-clinic and Agri-business centre training programme to promote best practices in farming to farmers across the country. Farmers from the community, students of the University and those from other Universities were trained in the areas of entrepreneurship, business management and skill improvement. This programme aims to tap the expertise available in the large pool of agriculture graduates with an objective to support and setup their own AgriClinic or AgriBusiness Centre and offer professional extension services to innumerable farmers



A. Empowerment of women

In 2020, the University and FICCI FLO, the women's wing of the Federation of Indian Chamber of Commerce & Industry (FICCI), Bhubaneswar has signed a MOU to work together for empowering women entrepreneurs in Odisha by mentoring women led startups, incubating ideas, supporting in the initiation of enterprises, acknowledging women achievers and enhancing the competence of women entrepreneurs. The University also signed MoU with the Entrepreneurship cell, IIT Kharagpur for Entrepreneurship Awareness drive.

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The University signed a MoU with Banking Finance and Insurance Institute of Nepal (BFIN), Nepal. The purpose of this MoU is to underpin the development of a long-term partnership between BFIN and the University for conducting and coordinating in the areas of training, education, research and consultancy Services, Information Technology and other allied services offered by both Institutions.



The Vice Chancellor was nominated as a member of the National Higher Education Council of the Women's Indian Chamber of Commerce & Industry (WICCI). The purpose was to foster leadership among women. Several events have been conducted notably, sessions on, The National Education Policy, Sustainable Development Goals and a meeting of Women Vice Chancellors.



Hosting events in area of promoting entrepreneurship and technologies

ARDRA- Business Plan competition

<https://youtu.be/Weh1DkhM454>

Business plan competition at Centurion University with external participants from GITAM University, Aditya College of Engineering, GVP College of Engineering and students of Centurion will present their business idea. 28 Ideas were presented on the 2nd day of the Business Plan competition and Gayatri Vidyapeeth College students bagged the Prize.



Ideathon 1.0

Centurion University had organized a National level Hackathon competition in collaboration with Novel Patent Services Private Limited in different themes. There was participation from institutes across the country which includes Government Engineering Colleges and Institute of Eminence like Indian Institute of Technology.



SmartIndia Hackathon

Smart India Hackathon is a nationwide initiative to provide students with a platform to solve some of the pressing problems that are faced in daily lives, and thus inculcate a culture of product innovation and a mindset of problem-solving. The first four editions SIH2017, SIH2018, SIH2019 and SIH2020 proved to be extremely successful in promoting innovation out-of-the-box thinking in young minds, especially engineering students from across India. Centurion University was a participant and host for several external institutions during SIH 2022.



3. Vocational training events (lifelong learning)

3.1. Short term courses and vocational education

1. National Institute of Open Schooling (NIOS)

Centurion University of Technology and Management is accredited by NIOS on 15th March 2013 for secondary and Senior secondary courses for the Bhubaneswar campus in the first instance and subsequently for campuses at Paralakhemundi, Rayagada and Balangir. Till date, more than 6000 learners at Secondary and Senior Secondary levels are enrolled and it has a graduation rate of more than 70%. NIOS integrated with the skill training has led to higher wages and better work prospects for candidates. The University promotes its staff members to get enrolled in NIOS for education and promotion avenues.

(<https://cutm.ac.in/about/overview-of-cutm/>)

2. Vocational Education

Centurion University of Technology and Management is one of the first skill university of the country with an overall objective of building human resource capability, resulting in employability as well as entrepreneurship development across disadvantaged areas of the world. The University through its schools, School of Vocational Education and Training, Industrial Training Institute, Institute for Training of Trainers has been imparting skills on different cardinal areas sufficing the Govt. of India's dream of Make in India. Similarly, Industrial Training Institute (ITI) of the University caters to skill development in areas: Fitter, Motor Mechanic and Electrician. Youth trained in ITIs are major support to carry out function of industry and act as support to supervisor who are generally Diploma holders. Until 2022, there are xxx number of students graduated as Diploma Engineer, YYY number from Industrial Training Institute (including both CTS and CITS).

<https://cutm.ac.in/schools/school-of-vocational-education-and-training/>

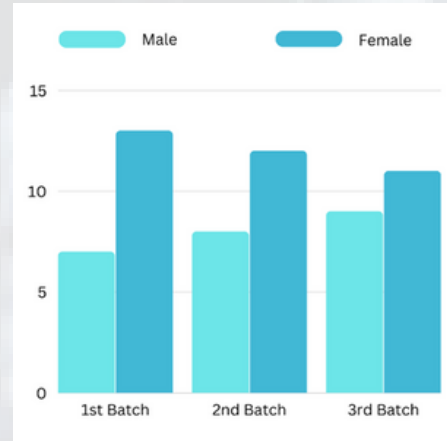
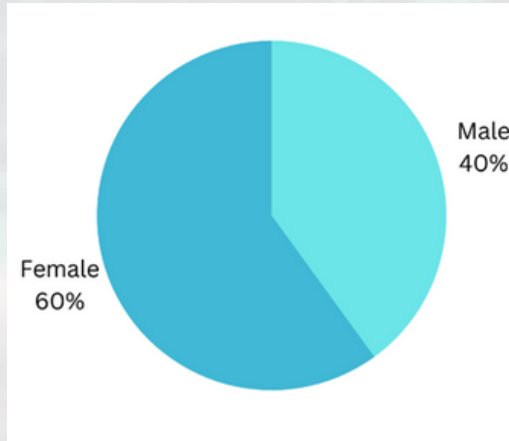
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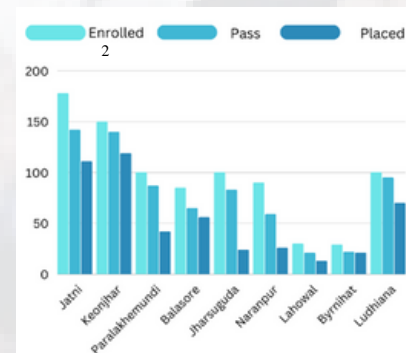
3. Training of Specially-Abled Youth

In sponsorship with Mindtree Foundation, Centurion University's social entrepreneurial outreach has trained youth from across the country in employment linked training program. They were trained in operating Sewing Machine and special modules had focused on development of their personality.



4. Training of women

Aligned with the Skill Impact Bond scheme of the Government of India, Centurion University's social entrepreneurial outreach is training all women batch in the trade of 'Sewing Machine Operator'. The enrolment of students is across the country in different satellite center as shown in the graph



5. Gram Tarang Technical Vocational Education and Training (GTVET)

Gram Tarang Technical Vocational Education and Training (GTVET), established in 2006, is a flagship social entrepreneurship organization of Centurion University of Technology and Management that strives to provide technology-enabled learning and aspirational education for all, especially those who are at the bottom of the social pyramid. The students range from school dropouts to graduates. Since its inception, Gram Tarang has trained over 70,000 youth across various industry sectors. GTVET has signed the Flexi-MoU to conduct tailored skilling programmes for its trainees.

The scheme is designed to cater to the needs of both industries as well as trainees. The scheme allows industries to train candidates as per their skill set requirements and provides trainees with an industry environment aligned with the market demand and latest technology to undergo training. GTVET conducts the following program in Flexi model

1. ITI - 4800 students
2. D.Voc and B.Voc - 7200 students



6. Centurion Public School

Centurion University is a one-stop solution across different echelons of studies. The University educates students from Kindergarten to Doctorate. CPS are located in remote and economically underprivileged sectors of Odisha serving the needs of community. It has over 2500 students with more than 1000 girls.



Adopted Villages

The University strives toward development and wellness of local communities. It has adopted 5 villages in Gajapati District of Odisha which are Engersingh, Badigam, Barlanda, Jhampiguda and Routpur. It conducts participatory development programmes in these villages and also aims to promote a good and healthy life style among the people. During the cyclone Titli it aided the restoration of water and sanitation facility and reconstruction of ravaged infrastructure.



The University with members of the community campaigned in the target villages on achieving sustainable development goals such as good health and wellbeing, sanitation, orientation to hand washing and related practices, and, setting up of dustbin/compost pits.

4. Education outreach activities beyond campus

4.1. Adopted Villages

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One of the cardinal rationale of waste water treatment through STP is its usage in the University's garden which is 172945.40 m and 2162 number of planted trees. The maintenance of the garden necessitates large quantity of water. The treated water from STP is used for the purpose of gardening and farming besides other applications.

4.2. Sewage Treatment Plant

Owing to the increase in pollution, the quality of water has become a top priority for the people. Hence wastewater, especially domestic sewage, needs to be decontaminated. In the past, domestic waste water treatment was mainly confined to organic carbon removal. Recently, increasing pollution in the wastewater leads to developing and implementing new treatment techniques to control Nitrogen and other priority pollutants. Pollution in its broadest sense includes all changes that curtail natural utility and exert deleterious effect on life.

The crisis triggered by the rapidly growing population and industrialization with the resultant degradation of the environment causes a great threat to the quality of life. Degradation of water quality is the unfavorable alteration of the physical, chemical and biological properties of water that prevents domestic, commercial, industrial, agricultural, recreational and other beneficial uses of the same. Sewage and sewage effluents are the major sources of water pollution. Sewage is mainly composed of human fecal material, domestic wastes including wash- water and industrial wastes.





As part of the curriculum all students of Centurion University of Technology and Management is required participate in the Culture, Sports, and Responsibility (CSR) program during their studies at the University. The program gives students an opportunity to learn from the experience of doing real tasks beyond the classroom, related to Culture (student life/creative pursuits), Sports (activities for Physical Fitness) and Responsibility (activities for the benefit of the community or the environment). The Culture Social Responsibility (CSR) conducts several outreach programs and consolidates it in the form of CSR annual report which is available in the below given links.

CSR Reports

2019-20

<https://cutm.ac.in/download-pdf/?pname=/wp-content/uploads/csr/CSR Annual Report 2019 20&catID=150>

2018-19

<https://cutm.ac.in/download-pdf/?pname=/wp-content/uploads/csr/CSR Annual Report 2018 19&catID=150>



