

# Learn Experience Change

Diagnostic  
Simulation at  
Centurion



**Centurion  
UNIVERSITY**

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



**School of Paramedics  
and Allied Health Sciences**



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**CHANGE**  
**EXPERIENCE**  
**LEARN**

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

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

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

# Shaping Lives...

## ABOUT US

Centurion University is a pioneer in 'Skill Integrated Higher Education'. Its unique model lays specific emphasis on creating sustainable livelihoods (aligned to SDGs) in challenging geographies through education that results in employability and ignites entrepreneurship. This model has been recognized by multiple Governments (Central and State), International Organizations such as UNESCO, the World Bank, and Policy Think Tanks like the NITI Aayog. Centurion University's School of Paramedics and Allied Health Sciences has been recognized as a Center of Excellence by Ministry of Skill Development and Entrepreneurship, Government of India.

We strive to excel as the best-in-class human resource development hub that builds employable, enterprising and society centric youth through industry relevant education, skill development, new ventures, production, and technology development.

Living by the value system of Inclusivity, Integrity, Equity, Respect, and Sustainability; our founders, faculty, and staff are fully committed to - **Shaping Lives, Empowering Communities.**

Focusing on experience based and practice-oriented learning to create transformative impact through community-centric innovation and action research, the university has built an ecosystem that includes and integrates communities, industries, entrepreneurs, and other education and research institutions.

The university encourages its students to participate in the WorldSkills Competition, and many students have won gold and silver medals at the national level.

**The Centurion curriculum is aligned with the National Occupational Standards (NOS) as per the National Skills Qualifications Framework (NSQF). It is the only university accredited by the Government of India to contribute to the development of NSQF by creating new job roles and Qualification Packs (QP).**

# Empowering Communities...

## HEALTH SCIENCE

The School of Paramedics and Allied Health Sciences is dedicated to strengthening the workforce of the healthcare industry. The focus is on providing dedicated programs to empower all health sector staff (excluding the doctors) with knowledge and skills they need to excel in their respective specializations. It has technology programs in Optometry, MLT, Radiology Physiotherapy, Anaesthesia, Clinical Microbiology, and many more. Most equipments are sponsored by renowned companies, which include the leading French optical brand 'Essilor'. The school implements a hands-on practice component for students through its 40+ hospital partnerships. They get to work with hospitals like Apollo Care, L. V. Eye Hospital, Vijaya Diagnostic, Vizag Eye Hospital (VISAKHA), etc., from the first year itself. In addition, some programs have a full one-year internship. The school also successfully runs its community diagnostic centers to help serve the nearby communities. Accredited by the Odisha Govt. (DMET) and Andhra Pradesh Govt., and having an impressive list of industry partnerships, The school assures placement at the end of the program.

### **Hospital Partners (for Training) :**

Manipal Health Enterprises Pvt. Ltd. | SUM Hospital | Kar Vision Eye Hospital | Sankara Eye Hospital | Trilochan Netralaya | Ashwini Group of Hospitals | Prolife Diagnostics, Bhubaneswar | APOLLO Hospitals Enterprise Limited Nidan Diagnostic Center | Ecos Eye Hospital | Ruby Eye Hospital And Lasik Center | Eye-Q Vision Private Limited Vision Care Eye Hospital | L. V. Eye Hospital | Amri Hospital | ASG Eye Hospital | Dr. Agarwal Eye Hospital | GEN X Diagnostic Center | Brahmanand Narayana Hospital | Hitech Hospital | Kalinga Hospital | KIIMS Hospital | Max Diagnostic Centre | Sparsh Hospital





# BACHELOR AND MASTERS OF SCIENCE IN OPTOMETRY

## Course Overview

In this course, students learn to examine the eye for defects and faults of refraction, prescribe correctional lenses or eye exercises, diagnose diseases of the eye, and treat such diseases or referring them for treatment. They potentially address serious eye diseases such as cataract, glaucoma, and age-related maculopathy, as well as eye diseases related to general health conditions such as hypertension and diabetes. They can help alleviate the burden of other causes of blindness through diagnosis, referral, and in some cases, co-management by working with ophthalmologists and other eye care providers. After qualifying in this program, students have the primary public health responsibility for eliminating uncorrected refractive error – the leading cause of vision impairment globally.

## Duration

4 Year program  
with a 1-year internship in the last year

## Scope/Job Opportunity

- | Optometrist
- | Optician
- | Optometry consultant in the eye care industry

## Eligibility Criteria

- | 10+2 Science (Physics/Math, Chemistry, Biology) 50%

# BACHELOR OF SCIENCE IN MEDICAL RADIATION TECHNOLOGY

## Course Overview

This skill course helps students in the direct administration of radiation, such as: X-ray, CT and MRI in disease diagnosis and injury assessment. Using problem-solving and critical thinking skills, students acquire quality Radiography, Computed Tomography (CT), and Magnetic Resonance Imagery (MRI) to assist in the diagnosis of trauma and disease processes. Students also gain knowledge and skills required to support medical teams by providing diagnostic-quality images with excellent patient care expertise.

## Duration

3 Years (6 Semesters)  
with a 6-month internship in the last semester

## Scope/Job Opportunity

- | Radiographer in private & government hospitals
- | Sonography expert

## Eligibility Criteria

- | 10+2 Science (Physics/Math, Chemistry, Biology) 50%





# BACHELOR AND MASTERS OF SCIENCE IN **MEDICAL LABORATORY TECHNOLOGY**

## **Course Overview**

This skill course prepares students to become health professionals who help diagnose and prevent diseases through clinical laboratory tests. Students gain expertise in analysing body matter such as fluid, tissue, and blood. Further, they learn to conduct micro-organism screening, chemical analyses, and cell count. Medical Technologists are an integral part of the medical profession, and these professionals play a vital role in practical and technical work to aid correct diagnosis and effective functioning of Biochemical Laboratories in healthcare facilities.

## **Duration**

3 Years (6 Semesters)  
with a 6-month internship in the last semester

## **Scope/Job Opportunity**

- Medical Laboratory Technologists in supervisory or management positions in laboratories and hospitals
- Medical Laboratory Technologists in molecular diagnostics or molecular biotechnology

## **Eligibility Criteria**

10+2 Science (Physics/Math, Chemistry, Biology) 50%

# BACHELOR OF SCIENCE IN **CLINICAL MICROBIOLOGY**

## **Course Overview**

This skill course enables students to diagnose and prevent diseases through clinical laboratory tests. This course is complementary where students learn to collect and analyse body matter such as fluid, blood and tissue, which support in the accurate diagnoses of a disease. Students also get the know-how to conduct micro-organism screening, sterilization of labs and equipment, and antibiotic sensitivity tests.

## **Duration**

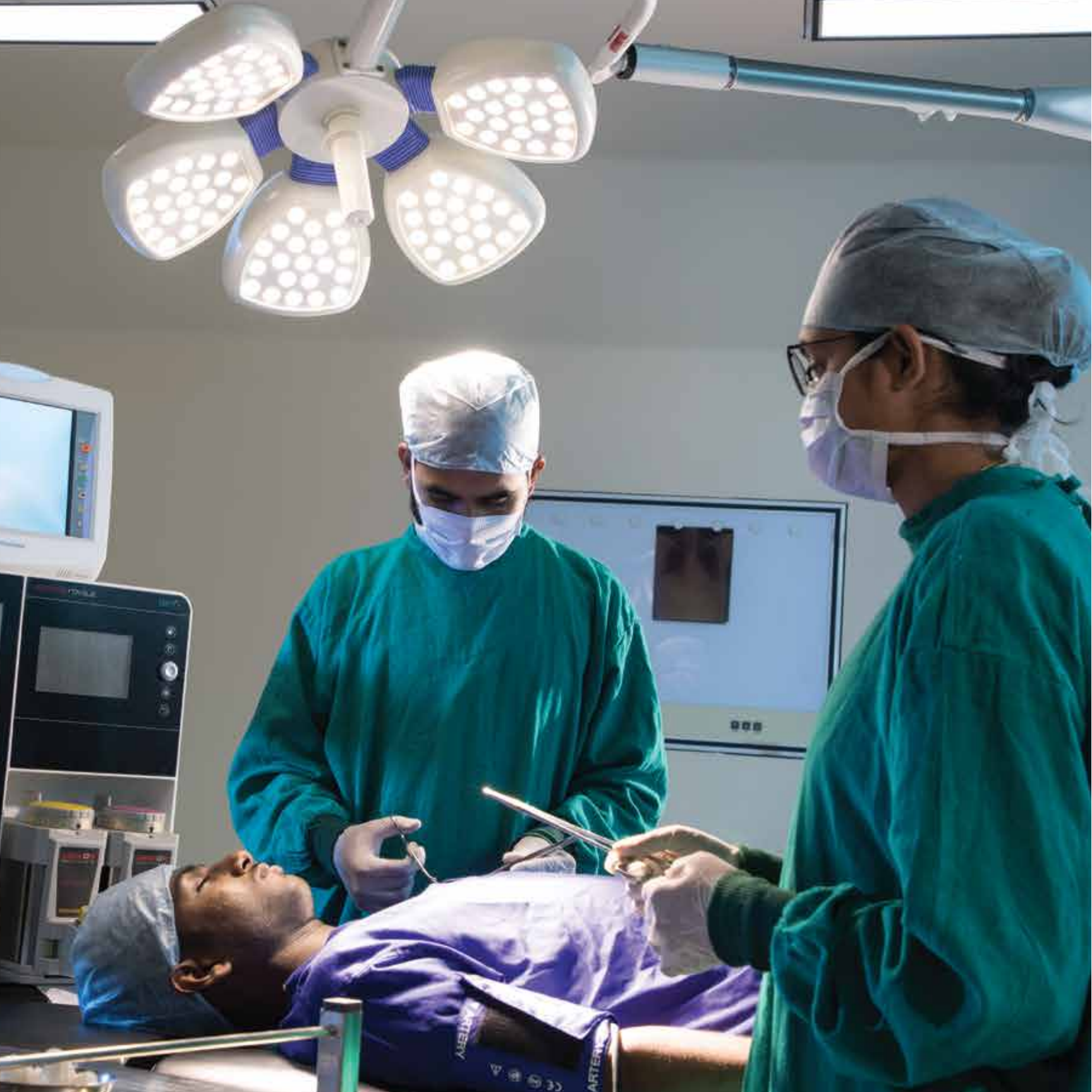
3 Years (6 Semesters)  
with a 6-month internship in the last semester

## **Scope/Job Opportunity**

- Laboratory Manager / Consultant / Supervisor
- Microbiologist in various healthcare fields and research labs
  - Healthcare Administrator
  - Hospital Outreach Coordinator

## **Eligibility Criteria**

10+2 Science (Physics/Math, Chemistry, Biology) 50%



# BACHELOR OF SCIENCE IN **OPERATION THEATRE TECHNOLOGY**

## **Course Overview**

With this skill course, students are trained to facilitate surgical procedures – both emergency and planned, by preparing and maintaining the operation theatre in advance. Students also learn to manage the OT with good knowledge on anaesthesia techniques for different type of patients and different types of surgical procedures. They eventually assist Anaesthesia and Surgery teams during preoperative, perioperative and postoperative periods in the OT, recovery room and wards.

## **Duration**

3 Years (6 Semesters)  
with a 6-month internship in the last semester

## **Scope/Job Opportunity**

- Anaesthetist Consultant
  - Lab Technician
- Operating Theatre Technician

## **Eligibility Criteria**

10+2 Science (Physics/Math, Chemistry,  
Biology) 50%

# BACHELOR OF SCIENCE IN **EMERGENCY MEDICINE TECHNOLOGY**

## **Course Overview**

This course trains students to give care for the sick or injured in emergency medical settings and situations. They get the know-how to deal with accident/trauma cases and patients who need immediate and quick medical response. People's lives often depend on the quick reaction and competent care provided by EMTs –Students are taught to respond to emergency calls, performing medical services and transporting patients to medical facilities.

## **Duration**

3 Years (6 Semesters)  
with a 6-month internship in the last semester

## **Scope/Job Opportunity**

- Emergency Medicine Laboratory Technologist
- Laboratory Manager / Consultant / Supervisor
  - Health Care Administrator
  - Hospital Outreach Coordinator

## **Eligibility Criteria**

10+2 Science (Physics/Math, Chemistry,  
Biology) 50%







# BACHELOR OF SCIENCE IN **ANAESTHESIA TECHNOLOGY**

## **Course Overview**

This skill course helps students with knowledge and skills required in their career as Anaesthesia Technicians – which is a very important role for allied healthcare allied healthcare professionals. Their main role is to assist doctors or surgeons before/during/after surgery. Anaesthesia Technicians play a vital role in Intensive Care Units (ICUs), Emergency Wards, and Operation Theatres (OTs). Students are trained to operate anaesthesia equipment, determine patient specific techniques, agents and dosage, and monitor the conditions of patients.

## **Duration**

3 Years (6 Semesters)  
with a 6-month internship in the last semester

## **Scope/Job Opportunity**

- Anaesthesiologist in public sectors, specialty hospitals, military, and research field
- Anaesthesiologist in any local hospitals or at a health care clinic
  - Teacher of anaesthesiology in national & international universities

## **Eligibility Criteria**

10+2 Science (Physics/Math, Chemistry, Biology)  
50%



# MASTERS OF SCIENCE IN APPLIED AND CLINICAL MICROBIOLOGY

## Course Overview

Applied and Clinical Microbiology is a discipline of medical science concerned with the prevention, diagnosis and treatment of infectious diseases. In addition, this field of science helps students identify different kinds of micro-organisms, study the characteristics of pathogens, their modes of transmission, mechanism of infection and growth, and revise the treatment protocol based on the information derived. Students further understand various clinical applications of microbes that have a positive impact on healthcare.

## Duration

2 Years (4 Semesters)  
with a 6-month internship in the last semester

## Scope/Job Opportunity

- Specialized Technologist in Microbiology
- Laboratory Scientist in Biomedical and Research Institutes
- Human resource in the management

## Eligibility Criteria

Bachelor's Degree in any branch of Life Science, Agriculture, Pharmacy, Veterinary or Medicine (MBBS/BDS)

# BACHELOR OF SCIENCE IN PHYSIOTHERAPY

## Course Overview

This degree course provides core skills to students like manual therapy, therapeutic exercise and the application of electro physical modalities. Students focus on the use of physical movements and exercise to improve and cure injuries, deformities, and diseases. They also learn to delineate the cognitive, affective, and psychomotor skills deemed essential to perform as a competent physiotherapist. They get the know-how to examine and evaluate patients for impairments and functional limitations, diagnose, plan, execute and document physiotherapy treatment (both electrotherapy and exercise therapy) and procedures independently or along with the multidisciplinary team.

## Duration

4 and half years (including 6 months of internship in the last semester)

## Scope/Job Opportunity

- | Independent Clinical Practitioner
- | Physiotherapist in Rehabilitation Centre's
- | Assist in Sports Physiotherapy
- | Post graduate education in various specialization

## Eligibility Criteria

10+2 Science (Physics/Math, Chemistry, Biology) 50%





# CERTIFIED COURSES

**Certified Dialysis Technician**

**Certified Blood Collection Assistant**

**Certified Electrocardiogram (ECG) Technician**

**Certified Electroencephalogram (EEG) Technician**

**Certified Electromyography (EMG) Technician**

**Certified Operation Theatre Technician**

**Certified Ophthalmic Assistant**

**Certified Ward Technician**

# PRODUCTS MANUFACTURED AT CENTURION





# AWARDS & ACCOLADES

## Student Achievements



### WorldSkills at National Level

| Gold medal in Health and Social Care  
(For the first time in Odisha)

| Gold in CNC Turning | Bronze in Joinery (Wood works)

| Received a **Patent** for “Automated Elephant Detection System to desist Railway accidents by unifying AI and IoT”

| Participated in the Dassault Systèmes and awarded one of the **best projects** – Living Heritage Project - developed model of Konark Sun temple in the 3D Experience Platform.



“...In India, the Centurion University of Technology and Management (Odisha) ... the only State-enacted University in the private sector with its strong industrial linkage through its Social Entrepreneurship Outreach (Gram Tarang) and its focus on community – has excelled in providing skills to students from rural areas.”

**Government of Odisha, after careful consideration, have been pleased to accord recognition to the Centurion University of Technology and Management as Skill University.**

- Research Report of Ernst and Young title, “Role of Higher Education in Creating Sustainable Livelihoods and Social Enterprises” is on the Model of Centurion University, published on 24th November 2016.
- NITI Aayog named Centurion University - Gram Tarang as the best practice reference point in the State of Odisha in their report titled, “State Forward: Best Practices from our States” released by the Honourable Prime Minister on 29th September 2016.
- Cited by name as a model in the debate of the General Assembly of United Nations on Right to Education. CUTM has been eloquently mentioned in the UN Secretary General Report on Right to Education (67th General Assembly, 2012)
- Acknowledged by the United Nations for works done in reaching out to the underprivileged through employment linked skill development.
- Case study by UNESCO, “Centurion University model of skilling” in the UNESCO – PROSPECTS: Volume 44, Issue 2 (2014).
- Case study of Wharton University of Pennsylvania, “Startups Spot Opportunity in Training India’s Informal Workforce” for people living in the Naxalite-infested regions in Odisha and Andhra Pradesh in June 2013.
- In Australia India Institute Report, titled “A Very Short Policy Brief: Sustainable Skill Development” in November 2016, the first reference of the policy brief is of Gram Tarang.
- Showcasing of Centurion University’s “Social Enterprise: A Global Outlook” in the Going Global Conference at Cape Town by the British Council in its international research report with a sample size of 200+ Universities where Centurion is the only reference from Indian subcontinent.
- Centurion University has become “Dassault Systèmes Academy Member” and it is the 1st Academy Member of Dassault Systems in India.
- Citation by The World Bank in its report (August 2015) on, “Governance for Quality in Higher Education in Odisha, India” as a unique model reiterating the significant edge in the domain of higher education.
- **The University has published 70 Patents, 7 Copyrights, 2 Design Patents and 2 patents granted.**



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Campuses: Paralakhemundi | Bhubaneswar | Vizianagaram | Rayagada | Balangir | Balasore

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**For admissions, Call: 82600 77222**

**CUTM Odisha – Website – [www.cutm.ac.in](http://www.cutm.ac.in)**

**CUTM Andhra Pradesh – Website – [www.cutmap.ac.in](http://www.cutmap.ac.in)**