

Learn Experience Change

Diagnostic
Simulation at
Centurion



Centurion
UNIVERSITY

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



**School of Pharmacy
and Forensic Sciences**



**Centurion
UNIVERSITY**

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





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.

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, while 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...

SCHOOL OF PHARMACY

Centurion University's School of Pharmacy and Life Sciences (SoPLS) is an institution established on 2016 dedicated to touch human lives in healthcare and happiness to ensure holistic societal development through skill based education, research, drug development and community welfare services. SoPLS committed to undertake the task of meeting professional and social needs like identification, cure, mitigation of disease and innovative drug design. It focuses in fulfilling student's career in pharmaceutical sector, research and entrepreneurship. The students are involved in hands on practice by making dissertation and small tenured projects in Pharmacy. SoPLS has well-furnished laboratories which are equipped with all modern and latest equipments and machines. SoPLS offers Ph.D, M.Pharm, B.Pharm and D.Pharm.





BACHELOR OF PHARMACY (B. Pharm.)

Course Overview

The Bachelor's degree in Pharmacy (B. Pharm) deals with the study of biochemical science and the healthcare business. It includes synthesis of pharmaceutical formulas, formulation of dosage forms, chemicals, instrumentals and preclinical analysis of the drugs, testing on laboratory animals, patenting and marketing of the new drugs. Aimed to produce pharmacy graduates with strong basics and high technical knowledge to cater the various areas of the pharmaceutical industry, this programme provides the required training in all aspects to empower students as healthcare professionals in community and hospital pharmacies. Other than the curriculum, the school also provides skill-based training on handling of prescription, prescription auditing and patient counselling.

Duration

4 years (eight semesters) - Regular
3 years (six semesters) - Lateral Entry

Scope/Job Opportunity

- Analytical Chemist • Food and Drug Inspector
- Hospital Drug Coordinator • Drug Therapist
- Chemical Technician • Drug Technical
- Drug Inspector • Health Inspector
- Research and Development
- Research Officer

Eligibility Criteria

Candidate should have passed 10+2 examination conducted by the respective state/central government authorities recognized as equivalent to 10+2 examination by the Association of Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics (P.C.M) and or Biology (P.C.B / P.C.M.B.) as optional subjects individually And Centurion University Entrance Exam (CUEE) Score

DIPLOMA IN PHARMACY (D. Pharm.)

Course Overview

D.Pharm deals with the study of Review Prescriptions, Dispense Prescription/Non-Prescription Medicines, Provide Patient Counselling/ Education, Hospital and Community Pharmacy Management, Expertise on Medications, Proficiency on Drugs/Pharmaceuticals, Entrepreneurship and Leadership, Deliver Primary and Preventive Healthcare, and Professional, Ethical and Legal Practice. SoPLS is working towards improving the skills of PG students by involving them in training, industry-oriented projects, exposing to workshops and guest lectures.

Duration

2 years

Scope/Job Opportunity

- Pharmacist
(Private/Government Hospitals & Community Health Centres)
- Clinical Pharmacist
- Pharmaceutical Industries
- Dispensary Pharmacist
- Medicines Safety Manager



MASTERS OF PHARMACY (M. Pharm.)

Course Overview

Master of Pharmacy is a two-year postgraduate program in Pharmacy. With experienced and highly qualified faculty, Thrust areas of research includes Development and Evaluation of Multi-Particulate Drug Delivery Systems, Sustained Release Dosage Forms, Immediate-Release Dosage Forms, Ocular Drug Delivery Systems, Transdermal Drug Delivery Systems, Implants, Semisolid Dosage Forms, Dental Preparations, Microspheres, Nano Pharmaceuticals (Nanoparticles, Liposomes, Solid Lipid Nanoparticles, Dendrimers, and so on).

Duration

2 years

Scope/Job Opportunity

- Analytical Chemist • Food and Drug Inspector
- Hospital Drug Coordinator • Drug Therapist
- Chemical Technician • Drug Technical
- Drug Inspector • Health Inspector
- Research and Development
- Research Officer

Eligibility Criteria

The candidate should have passed the following examinations

- a) B. Pharm Degree examination of an Indian university established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55 % of the maximum marks (aggregate of 4 years of B.Pharm.)
- b) Every student, selected for admission to post graduate pharmacy program in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled.



M. Pharm. **PHARMACEUTICS**

Course Overview

M. Pharm (Pharmaceutics) Course aims to provide students with a broad theoretical background in design and development of different novel optimized pharmaceutical dosage forms including cosmeceuticals and nutraceuticals.

M. Pharm. **INDUSTRIAL PHARMACY**

Course Overview

M. Pharm (Industrial Pharmacy) combines knowledge and understanding of active ingredients, excipient substances, technological processes and equipment. The school helps students to play a key role in developing new drugs in scale-up techniques.

M. Pharm. **PHARMACEUTICAL ANALYSIS**

Course Overview

M. Pharm in Pharmaceutical Analysis deals with the process of identification, quantification, and purification of a substance, separation of components from a mixture, or determination of the chemical structure of unknown chemicals. The school helps prepare students to excel in various sectors in the pharma industry, like Research and Development (R&D) and Quality Assurance (QC).

Duration

2 years (four semesters)

Scope/Job Opportunity

- Pharmaceutical Industries: Production / Manufacturing, Validation Aspects, Quality Assurance / Control, Technology Transfer, Process Development, Formulation Development, Generic Product Development, Drug Metabolism and Pharmacokinetics (DMPK), Intellectual Property Rights, Pharmacovigilance, Scientific Writing and Regulatory Affairs
- Academics: Lectureship
- Higher Studies (PhD)
- Food and Drug Inspector
 - Drug Inspector
 - Formulation Scientist
- Research and Development scientist
- Entrepreneurship and Consultancy



About

SCHOOL OF FORENSIC SCIENCES

Centurion University started School of Forensic Sciences in year 2017 with Gujarat Forensic Sciences University as its knowledge partner. It aims to create suitable aid for justice system through skill based education and research on Crime Prevention, Criminal Investigation Procedures & Laws, Criminology theories, and Cyber Security. It focuses in accomplishing student's career in Forensic domain: government sector (DFS, CFSL, SFSL), research and entrepreneurship. The students are involved in hands-on practice via dissertation reports and small tenured projects related to different branches of forensic (chemistry and toxicology; biology; digital forensics; fingerprints and questioned documents).

Centurion University's School of Forensic Sciences is affiliated to National Forensic Sciences University, Gandhinagar which is World's First Forensic Science University to fulfil our pursuit to continuously improve and enhance the subject of Forensic Science through innovative teaching and research work. Centurion University Offers Integrated B.Sc.-M.Sc. Forensic Science ,M.Sc. Forensic Science and M.Sc. Cyber security.



Integrated B.SC.-M.SC. **FORENSIC SCIENCE**

Integrated BSc-MSc Forensic Science is a 5-year course that involves the application of scientific knowledge for crime investigation. Forensic Science mainly focuses on crime-laboratory based professions. This knowledge analysis area is vast and different. It could be of anything from blood stain/splatter analysis, DNA profiling, finger prints development to recovering data from mobiles and laptop. The course enhances the inherent detective ability and rational thinking of a person. It helps them to think from various perspectives with strong analytical skills and keen observation skills as well.

Duration

5 years

Eligibility Criteria:

HSC (10+2) in Science
(Physics/Chemistry/Biology/Mathematics)
with at least 55% for General/OBC/EWS
category candidates and 50% or equivalent
for SC/ST and PwD category candidates.

M.SC. **FORENSIC SCIENCE**

M.Sc. Forensic Science concentrates on practices, procedures and analytical techniques used within forensic science, and how they are applied in support of the investigation of crime. It is a two-year postgraduate degree divided into four semesters. The course deals with the study of crime investigations. It provides training to students that include analysing, identifying suspects through materials found on crime locations. The course enhances an in-depth understanding of forensic science principles, its policing, and criminal investigation through teaching and research. With the M.Sc. Forensic Sciences Programme, students will be introduced to different forensic science techniques, photography techniques, and more to supervise the crime scene in different situations.

Duration

2 years

Eligibility Criteria:

Bachelor's degree in Science / Forensic
Science/ Medicine / Engineering /
Pharmacy/Dentistry/Ayush with at least 55%
for General/OBC/EWS category candidates
and 50% or equivalent for SC/ST and PwD
category candidates.



M. Sc.

CYBER SECURITY

Master of Science or MSc in Cyber Security is a 2-year postgraduate level degree course inculcating the study of cyber laws and cyber security. The aim of the program is to provide learners with essential expert technical knowledge, competence and research skills of the most important technical concepts of cyber security and how they are applied in emerging areas such as device security and forensics. The courses are technical and practical in nature, uniquely embedded in industry, and develops in-depth expertise of core technical topics within the area of cyber security and digital forensics such as information security, secure programming, network security, penetration testing, malware analysis, IT law and ethics, and technologies and tools that support application and service vulnerability detection, incident detection, data and log retrieval and analysis. Courses also provide a sharper focus into forensics and cyber security through the elective subjects that are offered to the learners.

Duration

2 years

Eligibility Criteria:

B.E./B.Tech. in Computer Engineering (CE) /Technology OR Computer Science and Engineering (CSE) OR Information Technology (IT) OR Information and Communication Technology (ICT) OR Electronics and Communication (EC) OR B.Sc. (Information Technology (IT) /Computer Science (CS)) OR Bachelor of Computer Applications (BCA) OR equivalent qualification from recognized University with minimum 55% (50% for SC/ST/PwD candidate in the qualifying examination).



SCOPE / JOB OPPORTUNITY:

A. **Government Sectors:**

- Based on merit of various public service commission (central and state), staff selection commission examinations and/or FACT and the desired educational qualification, forensic experts can join the Central and State organizations such as Directorate of Forensic Science, Central, State and Regional Forensic Science Laboratories at various positions such as assistant director, scientific officer and scientific assistant as well as Police Department, Intelligence Bureau (IB), Central Bureau of Investigation (CBI), and various Law enforcement agencies.

B. **Academics (teaching) and Higher studies**

- University grant commission specifies the mandate qualification for assistant professor to be Doctorate degree and/or Masters with UGC-NET qualified candidate in central, state and private universities.
- The bachelor or master's candidate can go for master or doctorate degree respectively.
- The candidate interested in research can join research institutes on qualifying UGC-NET or CSIR-NET or ICMR or AICTE examinations as per requisites for the positions of project trainee or research fellow.

C. **Private Sectors**

- Banking Sector (Insurance and Finance department)
- Quality Control Bureau
- Private Detective Agencies (e.g. Handwriting Expert, crime scene specialist)
- Hospitals (Forensic medicine department)
- Law Firms (e.g. Legal Counsellor, Investigative officers)
- Research Institutes Contract Research Organisations or Pharmaceutical Industries or Life science organisation or IT industries: Based on specialist area in forensic such as Analytical chemist, Toxicologist, Serologist, QA/QC officer, Auditor, SOC Analyst with a position of Research Associate, Executive or research officer and/or research scientist in various department.

D. **Entrepreneur or Consultant**

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.**

LIFE AT CENTURION



Bhubaneswar Campus Entrance Gate



Paralakhemundi Campus



Bhubaneswar Basketball Ground



Centurion Cafeteria



Centurion
UNIVERSITY

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

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

For admissions, Call: 82600 77222

CUTM Odisha – Website – www.cutm.ac.in

CUTM Andhra Pradesh – Website – www.cutmap.ac.in