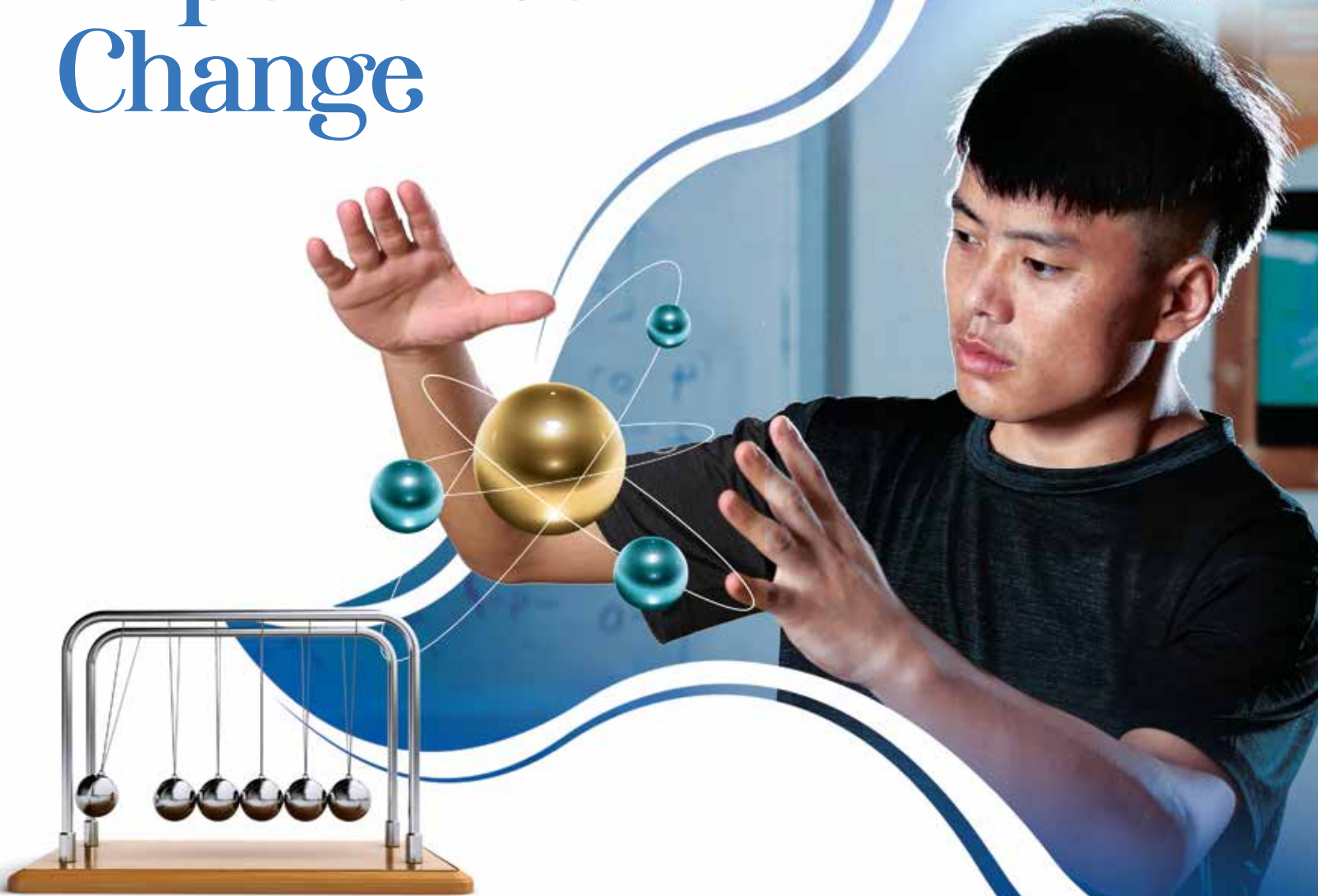


Learn Experience Change



Centurion
UNIVERSITY

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



School of Applied 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 APPLIED SCIENCES

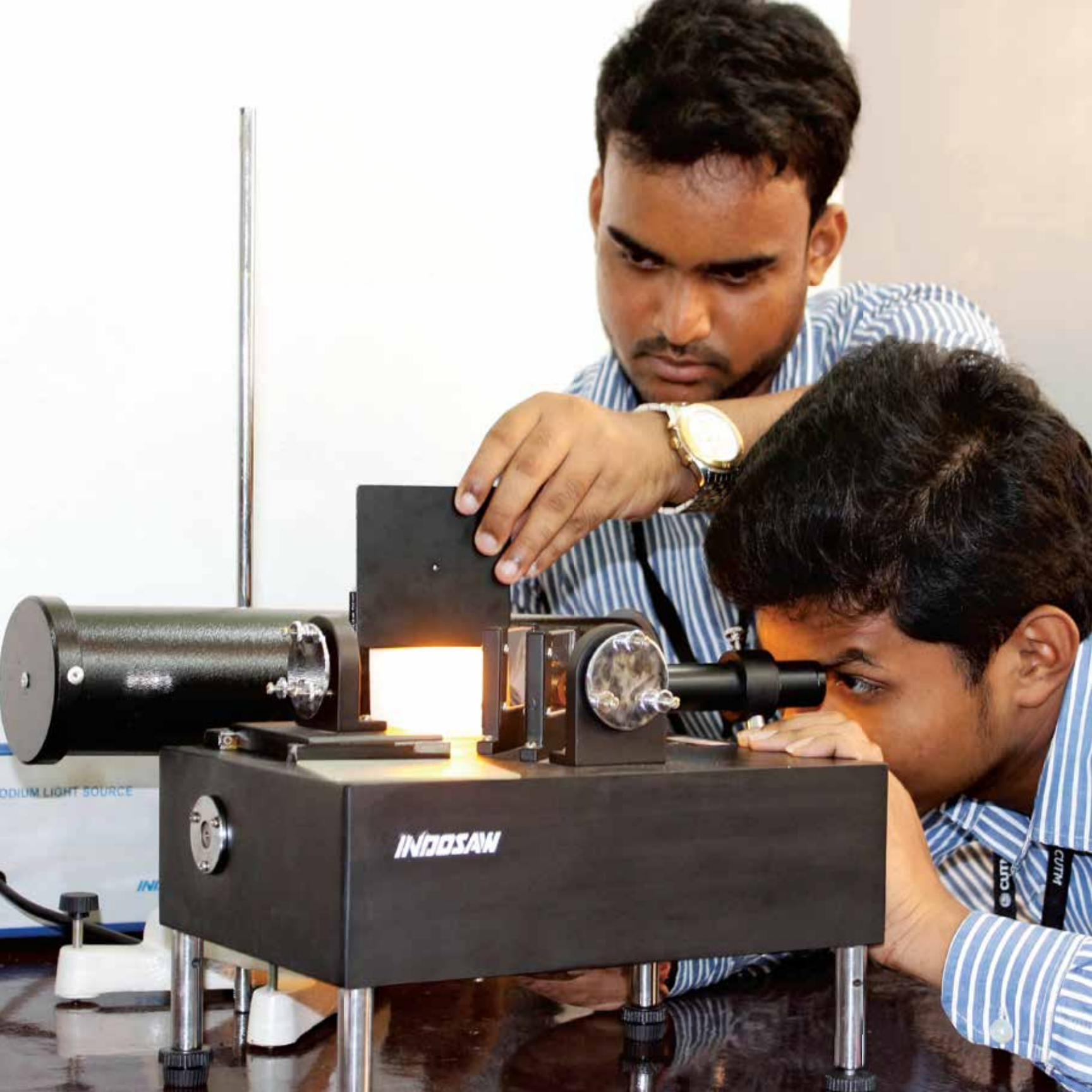
The School of Applied Sciences offer Bachelor's Programmes in Physics, Chemistry, Mathematics, Botany, Zoology, Information Technology, and Computer Science; and Master's Programmes in Applied Physics, Applied Chemistry, Applied Mathematics, Botany, and Zoology.

The school has been in the forefront in implementing CBCS as well as preparing itself to provide integrated 5 years Bachelors-Master's program as per the New Education Policy 2020.

Apart from preparing students for a career in teaching and research, which are traditional aspirations of students, the school has mapped out many industrial domains and new emerging areas like Phyto Pharma, Computational Fluid Dynamics, Renewable Energy, Intensive Aquaculture, Fish Processing Technology, Genetics and Genomics, Smart Agriculture, Animal Cell Culture, Seed Technology, Tissue Culture, Food Processing, Organic Farming, Horticulture, Dairy Processing, Composite Design and Manufacturing, Waste to Wealth, Medical Diagnostics, Radio Imaging Technology, Good Health and Wellness, and Nutraceuticals. Apart from these domains, students aspiring for industrial R&D and production jobs are also encouraged to take engineering domains like Data Science and Machine Learning, Gaming and Immersive Learning, Data Analytics, Artificial Intelligence, Machine Learning, Business Analytics, Cloud Technology, Cyber Security, Software Technology, Chip Design and Fabrication, Aerial Survey and Remote Sensing Applications, Space Science, and Smart Farm Machinery. The school has a multi-disciplinary team of faculty and collaborates with other Schools to offer these cutting-edge domains.

R&D careers, production jobs and teaching jobs are equally preferred by students. To further these aspirations, both Bachelor's and Master's students are mandated to publish in international journals. The school's faculty members, aided by the labs and full-time research scholars, focus on product research as well as publishing quality international papers.

Apart from this, the school prepares students for careers in Banking, Civil Services and other competitive exams like GATE, NET, JEST and CAT.



INDOSAW

SODIUM LIGHT SOURCE

IND

CUTM

CUTM

B. Sc. **PHYSICS**

Course Overview

As a department of excellence in imparting skill-integrated Physics education, it promotes high quality applications in Physics, nurtures research, and encourages higher and deeper learning among students and faculty members. The department also provides applications-oriented foundation level Physics courses to other programmes of the university.

This is a 3-year programme and its curriculum are patterned after the CBCS B.Sc. Physics Honours system recommended by the UGC. In line with the focus on skills at CUTM, the department offers integrated elective skill courses like Computational Physics Skills, Nanotechnology Skills, and DIY Skills.

Duration

4 Years

Scope/Job Opportunity

- Teaching
- Scientist
- Researcher
- Industry R&D
- Software related job

Eligibility Criteria

- 10+2 (Physics, Chemistry, Maths) for B.Sc.
- B.Sc. (Physics as a subject either main or auxiliary subject) for M.Sc.
- M.Sc. in Physics/Electronics/Applied Physics/Material Science or equivalent degree for Ph.D.

M. Sc. **APPLIED PHYSICS**

Course Overview

This is a 2-year programme for students who have B.Sc. degree in Physics with Honours. Keeping in perspective the current research trends in Physics and employability prospects, the department also offers industry-oriented Material-science/ Nano-science courses.

Ph. D. **PHYSICS**

Course Overview

The department offers full-time and part-time Ph.D. in various fields of Physics:

- Experimental Condensed Matter Physics
- Theoretical Condensed Matter Physics
- Nuclear Physics
- Ultrasonics
- High Energy Physics
- Astronomy and Astrophysics



B. Sc. CHEMISTRY

Course Overview

B.Sc. in Chemistry is a 3-year undergraduate program, which focuses on advanced study and research in Inorganic, Organic and Physical Chemistry. The students are offered several elective subjects that they can choose, based on their interests in their domain and job aspirations. The syllabus also helps the student to gain knowledge in Analytical Chemistry, Spectroscopy, Electrochemistry and various other fields of study.

Students can opt for any of the domain topics listed above. Essentially an interdisciplinary approach is adopted to expose students to various society-based problems and eventually carry out experiments aimed towards product or process-based outcomes.

Duration

4 Years

Scope/Job Opportunity

- Forensic Scientist
- Geochemist
- Hazardous Waste Chemist
- Materials Scientist | Pharmacologist
- Toxicologist
- Clinical Research Specialist | Teacher
- Safety Health and Environment Specialist
- Scope of higher study (MSc, MBA, BEd)

Eligibility Criteria

- 10+2 (Physics, Chemistry, Maths) 50% and 5% relaxation for reserved category
 - Centurion University Entrance Exam (CUEE) Score



M. Sc. APPLIED CHEMISTRY

Course Overview

Applied Chemistry degree programme focuses on combining Chemistry and Engineering. In this programme, students learn about various aspects of Chemistry such as: Nanomaterials, Composite Science, Analytical Chemistry, Advance Characterization Methods, Sustainable Chemistry, Synthetic Organic Chemistry and Spectrometry, This programme also offers domain subjects like Natural Resources, Environmental Contamination, Occupational Health and Safety, Pharmaceutical Chemistry, Risk Management and Environmental Toxicology, to help students orient themselves for industrial jobs, get hands on practice and gain exposure to practical knowledge. Interdisciplinary domains are offered essentially to expose students to various society-based problems and to carry out experiments aiming towards product or process-based outcomes. As part of skill development, the department also offers various skill courses, which students may opt as per their choice to learn a new skill and improve confidence, communication, efficiency, and flexibility.

Completing the program can enable an individual to develop advanced research skills that might find application in a future career. In addition, students will develop skills that will enable them to make new discoveries in the field of applied chemistry.

Duration

2 Years

Scope/Job Opportunity

- Forensic Scientist
- Analytical Chemist | Geochemist
 - Chemical Engineering
 - Associate Biomedical Analyst
- Materials Scientist | Researcher
 - Toxicologist
- Treasury Management Specialist
 - Lecturer
- Employment in DRDO, ONGC and NTPC
 - Safety Health and Environment
 - Specialist
- Scope of Higher Study (Ph.D, NET, GATE)

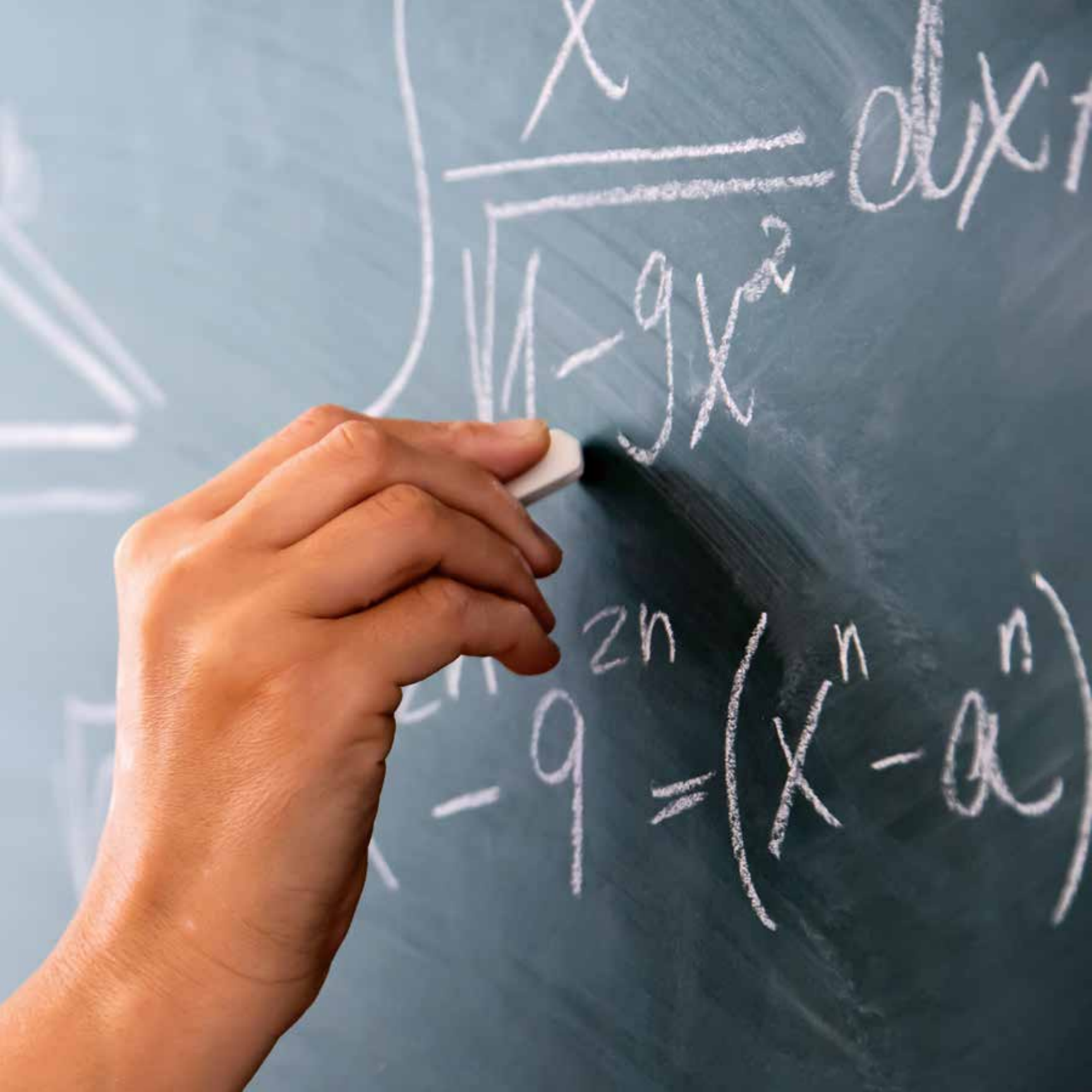
Eligibility Criteria

- Bachelor's degree in applied chemistry or related field with minimum 50% mark (5% relaxation for reserved category)
 - Centurion University Entrance Exam (CUEE)Score

Ph. D. CHEMISTRY

Course Overview

The Department offers full time and part time Ph.D. in Chemistry.



$$\frac{x}{\sqrt{-9x^2}} dx$$

$$\sqrt{-9x^2}$$

$$-9 = (x^n - a^n)$$

B. Sc. MATHEMATICS

Course Overview

The department of Mathematics offers 3-year programme course with Choice Based Credit System and provides application-oriented curriculum to nurture the students of 21st Century. The department also focuses on the elementary concepts of spatial and numerical relations deductively, including the study of subjects like differential calculus & vector calculus, integral calculus & trigonometry, arithmetic – aligned with the domain subjects like Artificial Intelligence, Computational Fluid Dynamics, Data Analytics and Machine Learning. For the overall development of the students the department also focuses on skill subjects and offers integrated elective skill courses like Quantum Computing.

Duration

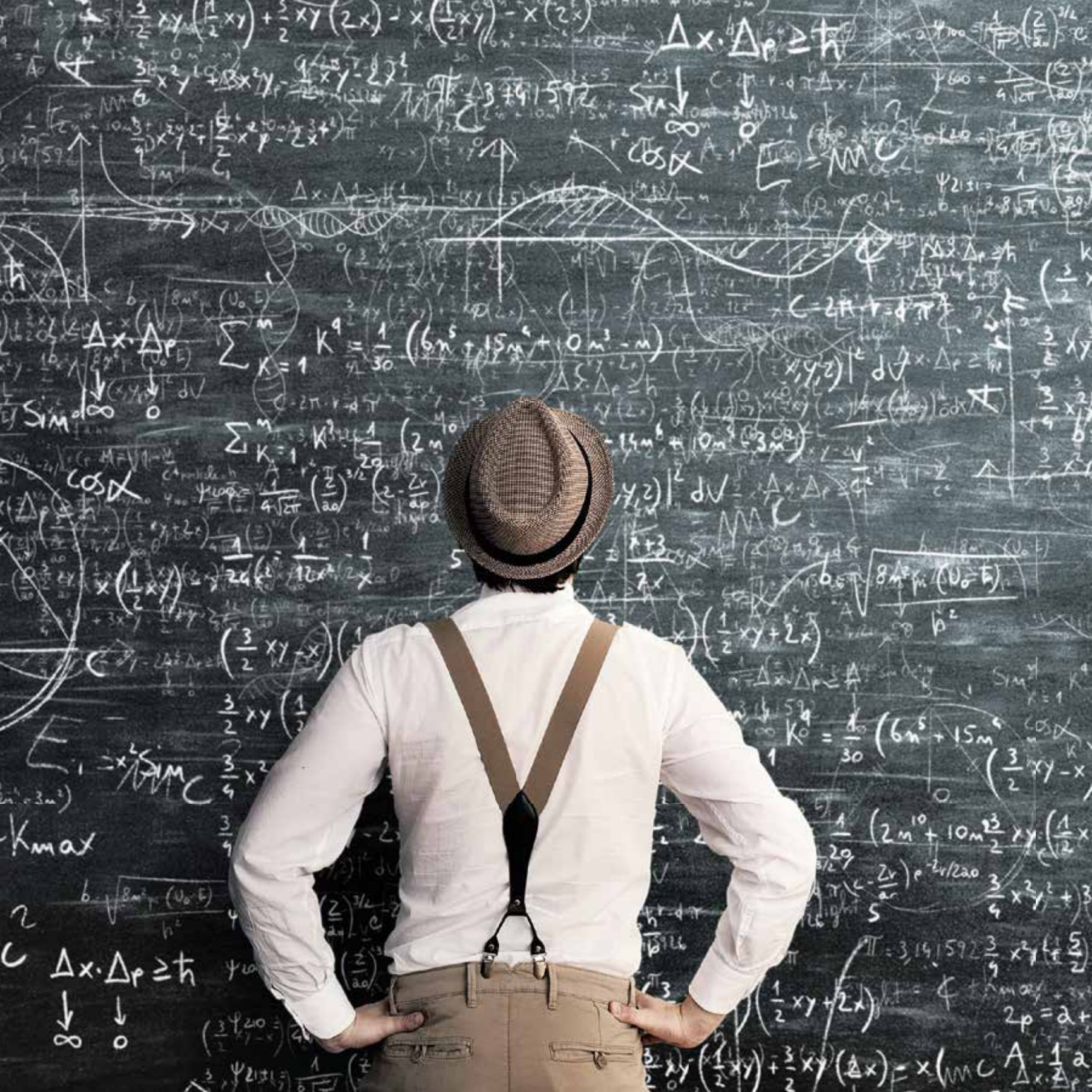
4 Years

Scope/Job Opportunity

- Teacher
- Scientist
- Researcher
- Industry R&D
- Software related job

Eligibility Criteria

- 10+2 (Physics, Chemistry, Maths) for B.Sc
- B.Sc. (Mathematics as a subject either main or auxiliary subject) for M.Sc.



$$\Delta x \cdot \Delta p \geq \hbar$$

$$\sum_{k=1}^m k^q = \frac{1}{q+1} (6m^5 + 15m^4 + 10m^3 - m)$$

$$\sum_{k=1}^m k^3 = \frac{1}{20} (2m^4 + 15m^3 + 6m^2 - m)$$

$$\left(\frac{3}{2}xy - x\right) \left(\frac{1}{2}xy + 2x\right)$$

$$\frac{3}{2}xy \left(\frac{1}{2}xy + 2x\right)$$

$$\frac{3}{4}x^2$$

$$\Delta x \cdot \Delta p \geq \hbar$$

$$\downarrow \quad \downarrow$$

$$\infty \quad 0$$

$$\left(\frac{1}{2}xy + 2x\right) \left(\frac{3}{2}xy \left(\frac{1}{2}xy + 2x\right) + \frac{3}{4}x^2 + 3\right)$$

$$\frac{3}{2}xy \left(\frac{1}{2}xy + 2x\right) + \frac{3}{4}xy (\Delta x) = x (\text{uncertainty})$$

M. Sc.

APPLIED MATHEMATICS

Course Overview

Keeping in view the current trends in employability, the department offers specializations in Computational Fluid Dynamics and Data Analytics and Machine Learning along with the core subjects like Optimization techniques, Advanced differential equations, Graph Theory, Advanced Statistical Methods, Applied Number Theory and many more. Students are exposed to science exhibitions, seminars, guest talks, attending summer internships, live projects, etc. The department also focuses on mentoring students to help them reach their dream goals.

Ph. D.

MATHEMATICS

Course Overview

The department offers full-time and part-time Ph.D. in Mathematics. The B.Sc. and M.Sc. students can choose from a range of 25 domains and they can also choose to take up multiple domains.

- Artificial Intelligence
- Computational Fluid Dynamics
- Data Analytics
- Machine Learning
- Solutions



B. Sc. **BOTANY**

Course Overview

B.Sc. in Botany is an undergraduate degree course, where students study and gain experience in their chosen fields, such as Mycology and Phytopathology, Plant Systematics, Microbiology, Genetics, Economic Botany, Plant Biotechnology, Plant Physiology, Plant Ecology and Phytogeography, Reproductive Biology of Angiosperm, and Plant Biotechnology. Often, students are required to work on projects as a capstone to show that they know how to take their classroom knowledge and pair it with real-life situations.

This is a 3-year programme, and its curriculum are patterned after the CBCS B.Sc. Botany Honours system recommended by the UGC. In line with the focus on skills at CUTM, the department offers integrated elective skill courses like Biofertilizers, Mushroom Farming, and Drug Discovery using Biovia, Basketball, Swimming, Yoga and Meditation, etc.

Duration

4 Years

Scope/Job Opportunity

- Teacher
- Scientist
- Researcher
- Industry R&D
- Software related job

Eligibility Criteria

- 10+2 (Physics, Chemistry, Biology) for B.Sc.
- B.Sc. (Botany as a subject either main or auxiliary subject) for M.Sc.



M. Sc. **BOTANY**

Course Overview

M.Sc. in Botany is a two-year postgraduate degree course that deals with the main areas of plants and their structure in nature and biology to help students understand the botanical process related to plants and organisms. It often incorporates lab work, domain projects and research. The required courses for this postgraduate degree vary based on the specific area of study and could include Plant Ecology, Plant Systematics, Plant Physiology, Mycology, Developmental Plant Anatomy and Comparative Morphology of vascular plants. The main aim is to deliver high-quality courses with strong vocational elements and professional skills development embedded across the curriculum. The students pursuing the M.Sc. in Botany course have many job opportunities in India and abroad in multiple domains such as Food and Processing, Biotechnology, Oil Industry, Chemical Industry, Forest Services, Plant Health Inspection Services, and Seed & Nurseries, etc.

Ph. D. **BOTANY**

Course Overview

The department offers full-time and part-time Ph.D. in Botany.

Student Support and Career Advancement:

- Mentoring activities to support students, and to guide them in reaching their dream goals.
- Exposure to science exhibitions, seminar, guest talks, attending summer internship, live projects, etc.
- The university has Culture Sports Responsibility cell and sports facilities to enhance and nurture students' interests in co-curricular activities.
- The department provides mentoring and support services to nurture the Science Club "ILLUMINATI" of the University.



B. Sc. ZOOLOGY

Course Overview

B.Sc. in Zoology is a 3-year undergraduate program that entails the advanced study and research in Human Physiology, Ecology, Developmental and Cell Biology, Vertebrate and Invertebrate Zoology, Biochemistry, etc. According to Choice Based Credit System, students are offered several elective subjects, which they can choose based on their interests and job aspirations. Ranging from Physiology to Biomechanics and Systematics, it involves the study of different subjects pertaining to Biochemistry, Genetics, and other special areas of research. To prepare the students for further prospects in multiple fields, the course engages in regular practical sessions, theory-based papers and regular outdoor tours to help the students get hands-on experience.

Students are also entitled to opt for domain topics such as aquaculture, genetics and genomics, food processing, nutraceuticals, dairy farming, animal cell culture, etc., essentially with an interdisciplinary approach to expose the students to various society-based problems and eventually carry out experiments aimed towards product or process-based outcomes.

Duration

4 Years

Scope/Job Opportunity

- Zoology Faculty
- Forensic Expert
- Wildlife Biologists
 - Ecologist
 - Zoologist
- Nutrition Specialist
- Clinical Business Associate
 - Animal Caretakers
 - Zoo Curator
- Environmental Consultant
 - Documentary Maker
 - Lab Technical Personnel
- Animal and Wildlife Educator
 - Animal Rehabilitator
 - Animal Breeders

Eligibility Criteria

- 10+2 (Physics, Chemistry, Maths and Biology)



M. Sc. ZOOLOGY

Course Overview

M.Sc. Zoology is a 2-year postgraduate program. Fundamental, advanced and applied topics such as genetics and epigenetics, immunology, physiology, cell and molecular biology, aquaculture, etc., are included so as to enable students in realizing the importance of this course and its utility towards the society. In recent years, the study of both fundamental and applied Zoology has induced a keen interest among students, researchers and animal science-based industries. This subject has been able to grab the attention of the academic world and have motivated scientists to work towards biodiversity conservation, formulating ecological safeguards and to apply Biotechnology & Bioinformatics to the field of Biomedical and Pharmaceutical sciences. The knowledge of animal forms and their physiological function opens the gateway to applications in a number of exciting and innovative fields. As a subject, it creates enormous interest in us as we are also part of the animal kingdom. Appreciating the development and evolution of animals help us to explore ourselves better. In this stream, students explore at a deeper level about how animals are integral component of the ecosystem. All the subjects are integrated with practice sessions and project components, so as to provide an excellent opportunity for students to gain hands-on training experience.

Students are also entitled to opt for domain topics such as aquaculture, genetics and genomics, nutraceuticals, dairy farming, animal cell culture, etc, essentially with an interdisciplinary approach to expose students to various society-based problems and eventually carry out experiments aimed towards product or process-based outcomes.

Duration

2 Years

Scope/Job Opportunity

- Zoology Faculty
- Forensic Expert
- Wildlife Biologists
 - Ecologist
- Veterinarian, Zoologist
 - Nutrition Specialist
 - Research Associate
 - Biomedical Scientist
- Clinical Business Associate
 - Ph.D. Researcher
 - Animal Caretakers
 - Zoo Curator
- Environmental Consultant
 - Documentary Maker
 - Lab Technical Personnel
- Animal and Wildlife Educator
 - Animal Rehabilitator
 - Animal Breeders

Eligibility Criteria

- +3 (Chemistry, Botany and Zoology)

Ph. D. ZOOLOGY

Course Overview

The department offers full-time and part-time Ph.D in Zoology.



BCA COMPUTER APPLICATION

Course Overview

The BCA course is a full-time three years Bachelor's Degree in Computer Application. The basic objective of BCA Course is to provide students with the required knowledge and necessary skills to get rewarding careers in the changing world of Information Technology. From topics dealing with the theoretical studies of algorithms and information to the practical issues of implementing computing systems in both hardware and software, the degree helps students in setting up a sound academic base for an advanced career in Computer Applications. Practicing real-time, industry-used tools, languages and algorithms, the curriculum adheres to dynamic syllabus making – AI, ML, Data Science and Warehousing, Cyber Security, Cloud Computing, High Performance Computing, Quantum Computing, Spectral Image Analytics, IIoT, Embedded Systems, Mobile Computing, Edge Computing, SoC, ARVR and Gaming – thus making students ready for Industry and Academics careers.

Duration

3 Years

Scope/Job Opportunity

- Software Developer
- Software Engineer
- Database Administrators
 - Data Engineer
- Data Science Consultant
 - Web Developer
- Clinical and Pharmaceutical Analyst
 - Data Technologies Specialist
- Digital Manufacturing Engineer

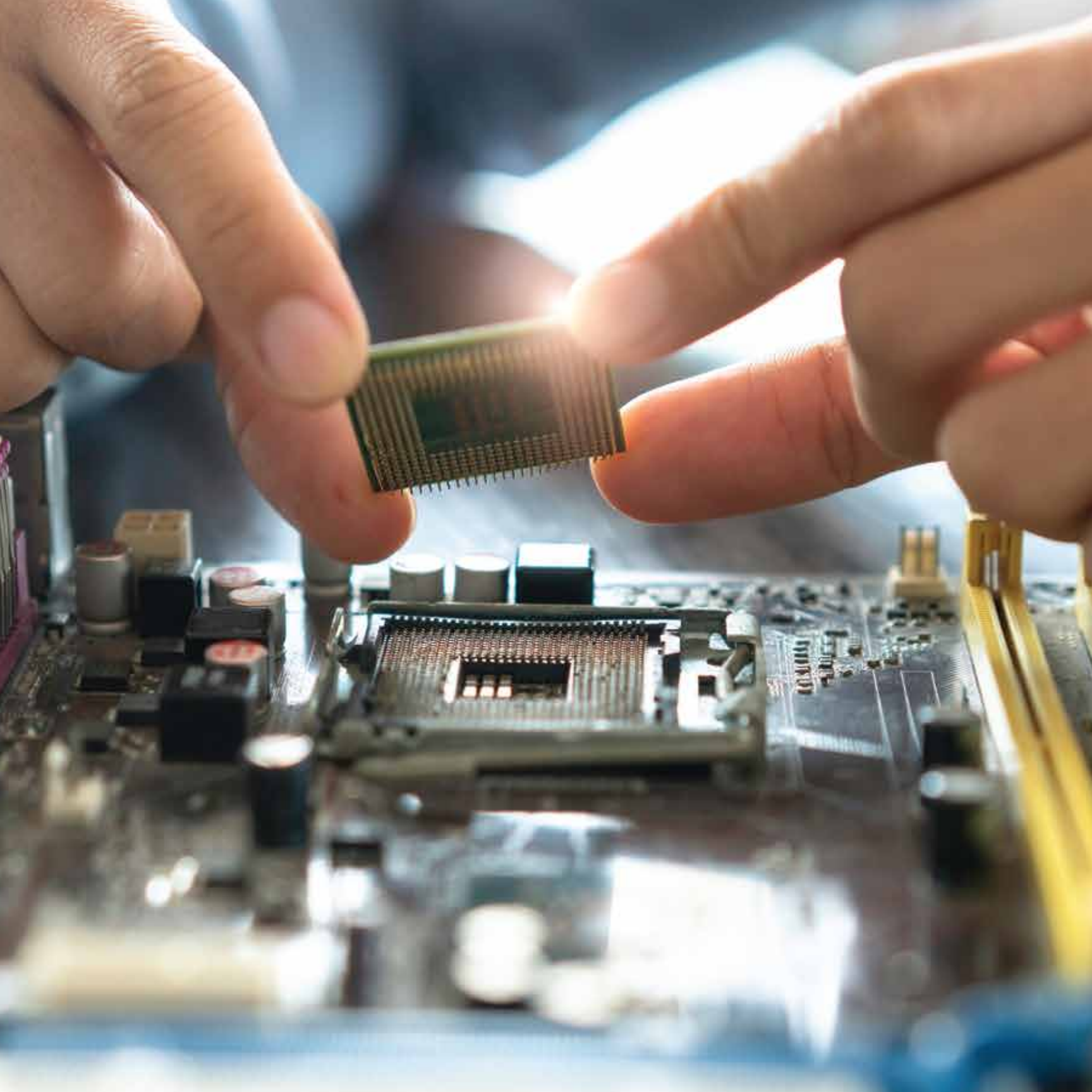
Eligibility Criteria

- 10+2 (Physics, Chemistry, Maths) 50% and 5% relaxation for reserved category
- Centurion University Entrance Exam (CUEE)Score

MCA COMPUTER APPLICATION

Course Overview

Master of Computer Applications is a two year full-time professional post-graduate programme. The courses are developed and designed so as to meet the demand for quality IT professionals with cutting-edge technologies in IT industries in the field of Computer Science and Information Technologies. The programme is delivered with industry-oriented tools, real-time practices, and trending languages/ frameworks. The dynamic curriculum includes - AI, ML, Data Science, Cyber Security, Cloud Computing, Image Analytics, IoT, Mobile Computing, Web app development, AR/VR and Gaming. Industry certifications are also integrated into the curriculum, preparing students to be in the workforce for the future.



B. Sc.

INFORMATION TECHNOLOGY

Course Overview

B.Sc. in Information Technology (BSC-IT) is a study that ranges from topics dealing with the theoretical studies of algorithms and information to the practical issues of implementing computing systems in both hardware and software. Practicing real-time, industry-used tools, languages and algorithms, the curriculum is delivered in partnership with the industry and adheres to dynamic syllabus making – AI, ML, Data Science and Warehousing, Cyber Security, Cloud Computing, Mobile Computing, ARVR and Gaming. The department has academic partnerships with Unity, Unreal, AWS, Dassault Systèmes, and many other cutting-edge technology companies. Industry certifications are also integrated into the curriculum, preparing students to be the workforce of the future.

Duration

4 Years

Scope/Job Opportunity

- Software Developer
- Cloud Computing Engineer
 - Data Visualizer
 - Data Ecologist
- Data Science Consultant
 - Financial Modeler
 - Web Developer
- Full-Stack Developer
- Metaverse Programmer

Eligibility Criteria

- 10+2 (Physics, Chemistry, Maths) 50% and 5% relaxation for reserved category
- Centurion University Entrance Exam (CUEE) Score

CYBER SECURITY

Course Overview

In this course, students learn how to protect computer operating systems, networks and data from cyber-attacks, and how to monitor systems and mitigate threats when they happen. This specialization enables students to set up and manage computer networks using wired and Wi-Fi protocols. Remote Infrastructure Management (RIM) is a key component of the syllabus. Aligned to CISCO certifications (CCNA and CCNP) and EC-Council certifications, this course is designed to make students industry-ready.

Scope/Job Opportunity

- Network Security Engineer
 - Cyber Security Analyst
 - Cyber Security Architect
 - Cyber Security Manager
- Chief Information Security Officer (CISO)
 - Information Security Manager
 - Cyber Security Engineer
 - Application Security Engineer
 - Incident Manager
 - Cyber Security Consultant
 - Cloud Security Engineer



DATA SCIENCE AND MACHINE LEARNING

Course Overview

Data Science and Machine Learning Course provides the language and techniques necessary for understanding and dealing with data. Data science involves the design, collection, analysis, and interpretation of numerical data with the aim of extracting patterns and other useful information. The course empowers students to collect, store, and process real-time data, by connecting the shop floor to the top floor. Students will be competent in both OPC/MQTT protocols, big data tools like HADOOP, ETL tools and processes, visualization of data using Python and proprietary software, Spectral Image Analysis, and AI/ML applications for data analysis and inference.

Scope/Job Opportunity

- Data Scientist
- Data Analyst
- Data Engineer
- Data Mining Engineer
 - Data Architect
 - Data Statistician
 - Project Manager
- Machine Learning Engineer
 - Software Developer

CLOUD TECHNOLOGY

Course Overview

Cloud Computing is a practice of using a network of remote servers hosted on the internet rather than a local server, or a personal computer, to store, manage and process data. With rapid changes in technology, Cloud Computing has become the driving force of business in recent years and has impacted nearly every aspect of the Information Technology landscape – including data analytics, information security, and project management. The course enables students to set up and manage various kinds of enterprise software management in a cloud environment. AWS being the partner in practice, the course syllabus is aligned with the four certifications of AWS, making students industry-ready. The university also operates its own data center to equip students with the knowledge of setting up and managing data centers.

Scope/Job Opportunity

- Cloud Engineer
- Cloud Architect
- Cloud Consultant
- DevOps Cloud Engineer
- Cloud Security Engineer
 - Data Engineer
 - Full-Stack Developer
- Cloud System Administrator
 - UI Developer



METaverse TECHNOLOGY

Course Overview

AR, VR, MR, game development, and asset launching on online marketing platforms are the main highlights of this course. Blockchain technology being an embedded part of the course, students will also learn about Non-Fungible Tokens (NFT) and Cryptocurrencies. Tools like Dreamweaver, Maya 3DGraphics, Unity, Blender, Unreal, and Dassult Systèmes help students become adept at managing production line for 3D asset making.

Scope/Job Opportunity

- Metaverse Programmer
 - 3D Asset Designer
 - Software Designer
- Quality Assurance Engineer
 - Software Engineer
 - Product Manager
- UI & UX Design Engineer
 - VR Game Engineer
- Virtual Reality Designer
 - Game Developer
- VR Sound Effects Specialist
 - Design Architect

SOFTWARE TECHNOLOGY

Course Overview

This program focuses on developing professional programmers for SaaS (Software as a Service). In this course, students learn software engineering and project management skills – from writing SRS (Software Requirement Specification) to testing and deployment of software. The technology stacks keep changing depending on the industry trends – Java with Spring, Java Script, AngularJS, HTML 5, MySQL, and Android, are some of the software platforms presently used. Focusing on full software project management, students also get hands-on experience with CMS tools.

Scope/Job Opportunity

- Applications Developer
- Cyber Security Analyst
 - Game Developer
- Information Systems Manager
 - IT Consultant
- Multimedia Programmer
 - Web Developer
 - Web Designer
- Software Programmer



Integrated B.Sc. & M.Sc. PROGRAM

Course Overview

B.Sc M.Sc integrated course is a 5-year undergraduate integrated course that deals with a strong foundation in the discipline's theoretical and practical aspects. Graduates in this course have wide job opportunities in many fields because their degree is highly valued in both public and private sectors for the designations of laboratory technician, food and drug inspector, research scientist, senior laboratory scientist, college professors, and teacher. For the success of your career, you can get into the professional world with hard and soft skills learned during your studies, and the integrated BSc-MSc degree will be a perfect choice to carry out your studies at the postgraduate level. BSc is a Bachelor of Science degree, and MSc is a Master of Science degree. Combining the two throughout your career will benefit you for industrial specialisation in any field. There are many specialisations, from Physics, Chemistry, Mathematics, Botany, Zoology and Computer Science etc. Students can pursue it after the 10+2 degrees with 5 years of study.

Scope/Job Opportunity

- After completing integrated BSc-MSc, you can undergo Ph.D in your field of specialisation.
 - Research Scientist:
 - Lecturer
 - Biochemist in Pharmacy Labs.
 - Laboratory technicians
- The list of job opportunities is not limited. With an integrated BSc-MSc degree, the graduate student will have a lot of scope in their career to work anywhere in the world that their specialisation takes them.

Eligibility Criteria

- Students must obtain and pass the 10+2 degrees.
- The minimum percentage for admission to this course is usually 60%.



Integrated MSC Ph.D. PROGRAM

Course Overview

Centurion University of Technology and Management continuously strives to provide excellent opportunities to the students and researchers. It is one of Centurion University's prime goals to maintain a healthy and productive balance between academics and research activities. As an institution promoting interdisciplinary research, Centurion University is adding an Integrated PhD Programme to its unique and state-of-the-art academics. Integrated PhD Program in the University is designed to nurture and mentor highly motivated students in building their researcher career from the earlier stages. The programme will admit students with a Bachelor's Degree and offer them an opportunity to experience a blend of coursework and research projects while awarding them both Masters and PhD Degree in Physics, Chemistry, Mathematics, Botany and Zoology.

After completing this program graduates will be able to:

- Demonstrate a detailed knowledge of their areas of specialization.
- Master the analytical/methodological skills needed to evaluate and conduct research in their areas of specialization.
- Demonstrate their ability to design and conduct original research in their chosen fields of specialization.
- Teach college-level courses in their areas of specialization.
- Communicate the results of their research in a clear and effective manner

Duration

4 Years

Scope/Job Opportunity

- Research Scientist
- Professor at Reputed Institutions
 - Job in Academic Institution
- As Biochemist in Research Labs
- Research Scientist in Defense (Central Govt. Organization)
 - Lab Technician

Eligibility Criteria

- Students must have obtained B.Sc. Degree from any reputed institutions.

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