

# BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

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## Graduate

- › Bachelor of Technology in Computer Science And Engineering (<https://cutm.ac.in/programmes/computer-science-and-engineering/>)
- › Bachelor of Technology in Mechanical Engineering (<https://cutm.ac.in/programmes/b-tech-mechanical-engineering/>)
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# Bachelor of Technology in Computer Science And Engineering

Program Code	Level	Duration
12	Graduate	4 Years

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## About the Programme

The Bachelor's degree in Computer Science and Engineering 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 designed in partnership with the industry and 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. 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.

## Domains

**DATA SCIENCE AND MACHINE LEARNING Course Overview** Bachelor in Data Science and Machine Learning provides the language and techniques necessary for understanding and dealing with data. Datascience 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. It also makes students competent in 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.

**Duration-** Four years **Scope/Job Opportunity**

- Software Developer
- Cloud Computing Engineer
- Database Administrator | Data Architect
- Metaverse Programmer Digital
- Data Visualizer | Data Engineer
- Data Ecologist | Data Science Consultant
- Clinical and Pharmaceutical Analyst
- Data Technologies Specialist
- Full-Stack Developer
- Financial Modeler | Web Developer
- Digital Manufacturing Engineer

### Eligibility Criteria

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

### Scope/Job Opportunity

- Data Scientist

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

**CYBER SECURITY Course Overview** This specialization helps 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. Remote Infrastructure Management (RIM) is a key component of the syllabus, and it enables students to set up and manage computer networks using wired and Wi-Fi protocols. Aligned to CISCO certifications (CCNA and CCNP) and EC-Council certifications, this domain prepares students to be 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

**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 the same **Scope/Job Opportunity**

- Cloud Engineer
- Cloud Architect
- Cloud Consultant

**Cloud Consultant**

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

**METaverse TECHNOLOGIES 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 also learn about Nonfungible Tokens (NFT) and Cryptocurrencies. Tools like Dreamweaver, Maya 3D Graphics, Unity, Blender, Unreal, and Dassault Systèmes, also 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 AS A SERVICE (SAAS) Course Overview** Focusing on developing professional programmers for SaaS (Software as a Service), this course helps students learn software engineering and project management skills using CMS tools – from writing SRS (Software Requirement Specification) to testing and deployment of software. The technology stacks keep changing depending on the industry trends, and some of the software platforms presently used are Java with Spring, Java Script, AngularJS , HTML 5 , MySQL, and Android. **Scope/Job Opportunity**

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

## Course Fee

	Fee Per Semester	Fee Per Year
<b>FOR BHUBANESWAR CAMPUS</b>		₹ 1,50,000
<b>FOR PARALAKHEMUNDI CAMPUS</b>		₹ 1,31,250

## Syllabus

 CSE

## Eligibility Criteria

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

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## Career path you can choose after the course

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- Database Administrators
- Data Architects
- Data Visualizers
- Data Engineers
- Data Ecologists
- Data Science Consultant
- Financial Modeler
- Clinical and Pharmaceutical Analyst
- Data Technologies Specialist

**Take the next step towards building your dream career.**

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## General

- > Holiday List (<https://cutm.ac.in/wp-content/uploads/General/HOLIDAY-LIST-2022-23.pdf>)
- > Track Your Vehicle (<https://cutm.ac.in/campus-facilities/transportation/>)
- > MIS/ERP Login  
(<https://cutm.icloudems.com/corecampus/index.php>)
- > Student Verification (<https://cutm.ac.in/students-credentials-verification>)
- > Site Map (<https://cutm.ac.in/sitemap/>)
- > CUTM Timesheet APK (wp-content/uploads/Android/Timesheet\_V1.apk)
- > CUTM Courseware APK (wp-content/uploads/Android/COURSEWARE\_V1.apk)

## Placements

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- > Our Recruiters (<https://cutm.ac.in/placements/our-recruiters/>)
- > Assessment Partners  
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- > Placement Brochure  
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- > Career Development Cell  
(<https://cutm.ac.in/placements/contact-placement-cell/>)

## Contact Us

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT (CUTM)

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## Admissions

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- > Course Fee (<https://cutm.ac.in/admission/course-fee/>)
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Admission Enquiry



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