



Curtin Colombo

# Undergraduate Course guide

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Make tomorrow better.

**CHANGE  
IS HERE.**  

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**JOIN US.**



## IN THIS GUIDE

|  |    |
|--|----|
| Curtin University .....                          | 2  |
| Curtin Colombo.....                              | 4  |
| Student life .....                               | 6  |
| Entry requirements .....                         | 8  |
| Engineering .....                                | 10 |
| Complete Engineering Foundation Year (EFY) ..... | 16 |
| Computing .....                                  | 18 |
| Business .....                                   | 22 |
| How to apply .....                               | 27 |



***Change is here. Join us.***

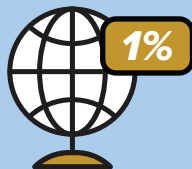


**Curtin is a vibrant and future-focused university where ideas and cultures combine to create a place of enthusiasm, endeavor, and achievement. It is a truly global university with campuses located in Western Australia, Malaysia, Singapore, Dubai, Mauritius, and Sri Lanka, and it has partnerships with over 130 institutions worldwide.**

When you join Curtin, you join a community of over 240,000 alumni around the globe, many of whom have made a significant impact in their field.

Curtin University's objective is to establish a resilient and well-balanced community that encompasses economic, cultural, and environmental sustainability. This community encourages seamless transitions between academic sessions, campus engagements, and social exchanges, overcoming conventional barriers. Curtin values on diversity, fostering an environment that is just, inclusive, and inviting, where all individuals experience a sense of belonging and acceptance.

In recent years, Curtin University has achieved its highest-ever result in the QS World University Rankings by rising to 183rd globally and continues to be positioned in the top one per cent of universities globally (QSWUR 2024).



#### TOP 1% IN THE WORLD

Curtin University is ranked in the top one per cent of universities worldwide (ARWU 2023).



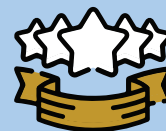
#### TOP 200 IN THE WORLD

Curtin University is ranked among the top 200 universities in the world (QSWUR 2024).



#### TOP 250 IN THE WORLD

Curtin University is ranked among the top 250 universities in the world (THE World University Rankings 2023).



#### RATED FIVE STARS PLUS

Curtin University is QS five stars plus rated university (QSWUR 2024).

# Get ready for change with Curtin Colombo

**Curtin Colombo stands as an overseas extension of Curtin University from Australia, boasting a lively campus located in the heart of Colombo. It offers a hub of remarkable facilities, valuable resources, and engaging pursuits, ensuring a fulfilling and enriching journey for all who join.**

## **Study a degree designed by industry experts**

At Curtin Colombo, we provide meticulously designed engineering, computing, and business programs in collaboration with industry experts. These programs seamlessly integrate practical learning with global industry partners. Our students will develop essential skills in critical thinking, problem-solving, and analysis, positioning you to succeed in a dynamic professional world and easily adapt to industry needs. By engaging with practical experiences and industry connections at Curtin Colombo, they will effortlessly transform theoretical knowledge into real-world solutions. This ensures that upon graduation, students are fully equipped for the workforce, ready to make valuable contributions to communities worldwide.

## **Gain international recognition**

Upon completion of their engineering, computing, or business degrees our students will receive international accreditation from Engineers Australia (EA), the Australian Computer Society (ACS)\*, and AACSB International, respectively. Graduating students from engineering degrees can also apply for IESL membership/recognition by fulfilling the requirements set by IESL.

\*Please note that students who graduate with a degree in Software Engineering, Cyber Security, or Information Technology will receive accreditation from the Australian Computer Society.

## **Connect with a global university**

Curtin is a truly global university with campuses in Western Australia, Malaysia, Singapore, Dubai, and Mauritius, and partnerships with more than 130 institutions worldwide. This means there are several locations around the world where students can study a Curtin course. Students will also be gaining access to a valuable international network of industry and research collaborators.

## **Complete your studies in Sri Lanka or transfer overseas**

Our students can complete their course in Sri Lanka, transfer to Curtin University in Australia, or attend any of Curtin University's global campuses.

## **Learn from a global lecture panel**

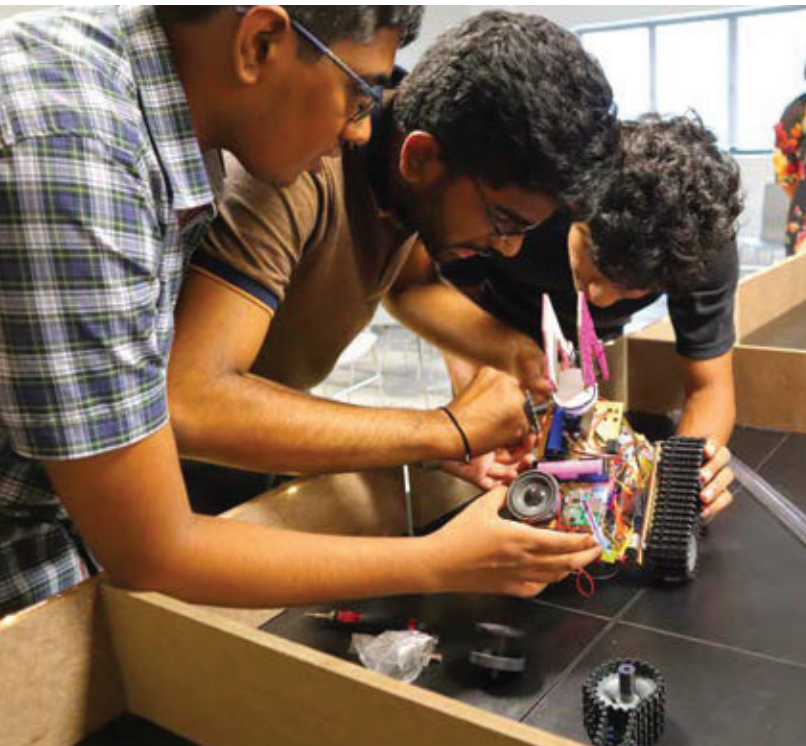
Our students have the opportunity to interact with visiting academic staff members from Curtin's global campuses. This exposure provides students with diverse cultural perspectives, different academic approaches, and a global outlook, broadening their understanding of various subjects.

## **Study one semester in Australia at Sri Lankan course fees**

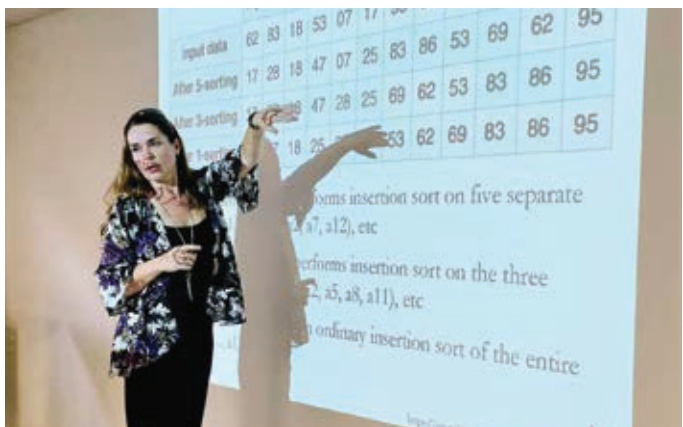
Our students have the unique opportunity to engage with Australia's vibrant culture and exceptional education for an entire semester, all while paying the equivalent of Sri Lankan course fees. They can immerse themselves in a curriculum recognized worldwide, embrace new perspectives, and establish lasting connections in a foreign land, all while enjoying the financial benefits that allow them to study at an Australian university for just one-fourth of the cost. This experience offers a chance to expand horizons and seize opportunities for personal and academic growth through an accessible and enriching global journey.



# Student life







**Become part of a vibrant, inclusive campus with facilities and resources to help you make the most of your Curtin learning experience.**

### **Clubs and societies**

With multiple clubs and societies to choose from, you will find a group that's right for you to enhance your student experience.

### **Sports**

Explore a range of sports and recreation programs, social and competitive opportunities, and fitness memberships that are open to everyone.

### **Events**

From food festivals, musical evenings and sports tournaments, you will experience a range of exciting events that are happening throughout the year.

# Entry requirements

## Academic entry requirements

### For Sri Lankan GCE Advanced Level:

Successful completion of Sri Lankan General Certificate of Education (GCE) Advanced Level with an aggregate calculated as specified in table 1 from the best 3 subjects (excluding General English) completed in one sitting. Provide separate evidence of English competency.

### For United Kingdom GCE Advanced Level:

Successful completion of at least two General Certificate of Education (GCE) Advanced (A2) level subjects from a UK examination authority (AQA, Pearson, Edexcel, OCR, WJEC or CCEA) and achieve the required aggregate as specified in table 1. Provide separate evidence of English competency.

#### OR

Successful completion of the Curtin University foundation program (IT/ engineering/ business stream)

#### OR

Any other alternative qualification recognized by Curtin University.

## English entry requirements

C grade in G.C.E. Ordinary Level English (Sri Lankan/Cambridge/Edexcel) OR G.C.E.

Advanced level General English (Sri Lankan) (for the Sri Lankan Ordinary Level and Advanced Level English, results must have been released within 5 years of application to study at Curtin).

#### OR

A minimum of any one of the accepted English proficiency tests as specified in table 2 (for IELTS, TOEFL and PTE Academic, the test must have been undertaken within two years of application to study at Curtin. The test may be used for entry into the next immediate semester intake).

Students who have not met the English entry requirements based on the tests indicated above, have the option of sitting for the Cambridge Linguaskill examination administered by Curtin University, prior to course commencement and obtain the minimum required score to meet the course English entry requirement.

#### Notes:

1. Students applying with Advanced Level results must provide original result schedules/certificates issued by the Department of Examination or relevant authority. A conditional offer will be issued for students who are unable to provide the required documentation.
2. Students may apply with pending Advanced Level results submitting the statement of entry and must ensure they meet minimum requirement as specified in table 1 to proceed with the degree program.

**Table 1: Minimum requirements for degree programs**

Points are assigned on the basis that: A\*/A=5, B=4, C=3, D=2, S/E=1

| Study area  | Specialisation                | Minimum points | Course prerequisites  |
|-------------|-------------------------------|----------------|---|
| Engineering | Civil and Construction        | 8              | E/S grade in Applied Mathematics or Pure Mathematics or Combined Mathematics AND<br>E/S grade in Physics or Chemistry (in the absence of either Physics or Chemistry in Advanced Level, the relevant module is to be followed in the first year of the degree program). |
|             | Electrical and Electronic     | 8              |   |
|             | Mechanical                    | 8              |   |
|             | Mechatronics                  | 8              |   |
| Computing   | Cyber Security                | 8              | E/S grade in Applied Mathematics or Pure Mathematics or Combined Mathematics (in the absence of Mathematics in Advanced Level, the relevant module is to be followed in the first year of the degree program).  |
|             | Software Engineering          | 8              |   |
|             | Information Technology        | 5              |   |
|             | Computer Systems & Networking | 5              |   |
| Business    | Business Administration       | 5              | No prerequisites  |

**Table 2: Minimum requirements for English proficiency tests**

| IELTS (International English Language Test System)                      |     |
|---|-----|
| Writing and Speaking  | 6.0 |
| Reading and Listening   | 6.0 |
| Overall   | 6.5 |
| TOEFL (Test of English as a Foreign Language) IBT (Internet Based Test) |     |
| Reading and Listening   | 13  |
| Speaking  | 18  |
| Writing   | 21  |
| Overall   | 68  |
| PTE Academic (Pearson Test of English Academic)                         |     |
| Listening and Reading   | 59  |
| Speaking and Writing  | 59  |
| Overall   | 69  |

# Engineering



# Civil and Construction Engineering

## Degree

**Bachelor of Engineering (Honours) (Civil and Construction Engineering)**

## CRICOS CODE

**072467B**

Throughout this course, you will cultivate fundamental scientific, mathematical, and hands-on proficiencies. Moreover, you will grasp the art of implementing these abilities in structural analysis and design, geotechnical engineering, transportation engineering, hydraulics, construction, and professional practice. This will empower you to effectively tackle engineering challenges of the future.

In your final year, you'll integrate your design, construction, and management skills in large civil engineering projects; undertake a major civil engineering research project and select units from specialty options in the areas of structural, geotechnical, transportation, water resources and environmental engineering.'

To satisfy professional requirements, you will complete the required professional engineering practice during your course. This requirement can be met through appropriate work experience or a combination of technical and nontechnical activities.

## Career opportunities

### Careers

- Civil/ Structural engineer
- Design engineer
- Site engineer
- Building contractor

### Industries

- Construction
- Consulting
- Contracting
- Government
- Mining

## Course structure

### Year 1 units

- Engineering Foundations: Principles, Design and Communication
- Engineering Mechanics
- Introduction to Scientific Data Analysis / Sustainability and Renewable Energy
- Linear Algebra and Statistics for Engineers
- Calculus for Engineers
- Electrical Systems
- Resources, Processes and Materials Engineering
- Fundamentals of Programming

### Year 2 units

- Civil Engineering Materials
- Civil Engineering Drawing and Surveying
- Structural Analysis of Determinate Structures
- Fluid Mechanics
- Water Quality and Resources Engineering
- Engineering Sustainable Development
- Principles of Geomechanics
- Structural Analysis of Indeterminate Structures
- Structural Mechanics

### Year 3 units

- Advanced Structural Analysis
- Transportation Engineering and Earthworks
- Geotechnical Engineering Analysis
- Structural Actions and Steel Design
- Geotechnical Engineering for Foundations
- Civil Engineering Project and Cost Management
- Hydraulics and Hydrology
- Reinforced Concrete Design

### Year 4 units

- Civil Engineering Research Project 1
- Civil Engineering Practices, Quality and Legislation
- Integrated Structural Design
- Civil Engineering Research Project 2
- Integrated Design and Construction
- Elective units

# Electrical and Computer Engineering

## Degree

**Bachelor of Engineering (Honours) (Electrical and Electronic Engineering)**

## CRICOS CODE

**072467B**

Throughout this program, you will acquire a comprehensive grasp of the foundational principles driving electrical and electronic engineering. Subsequently, you will have the opportunity to select a specialization. During your final academic year, you will embark on a significant research or design venture and fulfill the obligatory professional practice requirement.

The curriculum will center on several key areas, including embedded systems, where you will gain a comprehensive understanding of the theoretical and applied facets of embedded systems, sensors, and electronic design. Additionally, the course encompasses electronics and communication, equipping you to tackle the complexities of telecommunication systems to ensure seamless and swift communication across all locations. Furthermore, the program delves into power systems, exploring subjects like smart grids, distribution systems, and the incorporation of renewable energy sources

## Career opportunities

### Careers

- Electrical/Electronics engineer
- Electrical power engineer
- Communications engineer
- Embedded systems engineer
- Systems engineer

### Industries

- Application engineering
- Computer hardware design
- Electronic systems
- Manufacturing
- Software development
- Power engineering

## Course structure

### Year 1 units

- Engineering Foundations: Principles, Design and Communication
- Engineering Mechanics
- Introduction to Scientific Data Analysis / Sustainability & Renewable Energy
- Linear Algebra and Statistics for Engineers
- Calculus for Engineers
- Electrical Systems
- Resources, Processes and Materials Engineering
- Fundamentals of Programming

### Year 2 units

- Electrical Circuits
- Unix and C Programming
- Foundations of Digital Design
- Mathematics and Probability Theory
- Signals and Systems
- Electromagnetic and Electromechanical Energy Conversion
- Electronic Fundamentals
- Microcomputers

### Year 3 units

- Fundamentals of Engineering, Electromagnetics & Transmission Lines
- Dynamic Modelling and Control
- Data Communications and Network Management
- Digital Signal Processing / Power Electronics
- Renewable Energy Principles
- Law for Engineers
- Engineering Sustainable Development
- Elective units

### Year 4 units

- Instrumentation and Control
- Engineering Research Project 1
- Engineering Research Project 2
- Engineering Management
- Elective units

# Mechanical Engineering

## Degree

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**Bachelor of Engineering (Honours) (Mechanical Engineering)**

## CRICOS CODE

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**072467B**

This course is fundamentally oriented to provide learning and skills development opportunities with hands-on experience in the mechanical engineering industry.

You will learn how to apply your knowledge and skills to develop solutions to a wide range of exciting and challenging problems. In your final year you will undertake an individual design or research project and complete the required hours of professional practice. This hands-on course is designed to prepare you for employment in one of the many specialties within mechanical engineering.

## Career opportunities

### Careers

- Mechanical engineer
- Maintenance engineer
- Mechanical design engineer

### Industries

- Aerospace
- Automotive
- Manufacturing
- Electrical
- Design

## Course structure

### Year 1 units

- Engineering Foundations: Principles, Design and Communication
- Engineering Mechanics
- Introduction to Scientific Data Analysis / Sustainability & Renewable Energy
- Linear Algebra and Statistics for Engineers
- Calculus for Engineers
- Electrical Systems
- Resources, Processes and Materials Engineering
- Fundamentals of Programming

### Year 2 units

- Engineering Graphics
- Engineering Mathematics
- Fluid Mechanics
- Machine Dynamics
- Fundamentals of Strength of Materials
- Engineering Sustainable Development
- Manufacturing Processes
- Fundamentals of Mechanical Design
- Fundamentals of Thermodynamics
- Electrical Plant

### Year 3 units

- Fundamentals of Mechanical Vibration
- Competitive Manufacturing Processes
- Advanced Strength of Materials
- Applied Thermodynamics and Heat Transfer
- Linear Systems and Control
- Engineering Management
- Applied Fluid Mechanics

### Year 4 units

- Mechanical Engineering Research Project 1
- Law for Engineers
- Mechanical Engineering Research Project 2
- Professional Engineering Practice
- Elective units

# Mechatronic Engineering

## Degree

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**Bachelor of Engineering (Honours)  
(Mechatronic Engineering)**

## CRICOS CODE

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**072467B**

With the ever-increasing reach of automachine systems, mechatronic engineers are found in diverse industries including aerospace, agriculture, electrical, electronic, and energy resources.

As the number of industries that are innovating through digital technologies grows, so do the opportunities for mechatronic engineers. Rapid advances in automation applications – such as self-driving vehicles and mine-site automation – are driving an increased need for mechatronic engineers with expertise in mechanical, electronic and computer systems engineering.

Numerous industries require mechatronic engineers to work towards solutions for some of society's most pressing problems. As a mechatronic engineering student, you will develop sound theoretical knowledge in the key disciplines of mechanics, electronics, computer systems and control. You will apply this knowledge and develop practical skills through a series of projects.

## Career opportunities

### Careers

- Mechatronic engineer
- Mechanical engineer
- Automation engineer
- Mechatronic system maintenance engineer

### Industries

- Aerospace
- Agritechology
- Autonomous vehicle
- Electronic
- Electrical
- Medical

## Course structure

### Year 1 units

- Engineering Foundations: Principles, Design and Communication
- Engineering Mechanics
- Introduction to Scientific Data Analysis / Sustainability & Renewable Energy
- Linear Algebra and Statistics for Engineers
- Calculus for Engineers
- Electrical Systems
- Resources, Processes and Materials Engineering
- Fundamentals of Programming

### Year 2 units

- Engineering Mathematics
- Mechatronics Microcontroller Project
- Machine Dynamics
- Electrical Circuits
- Foundations of Digital Design
- Unix and C Programming
- Signals and Systems
- Mechatronics Modelling Project
- Engineering Management

### Year 3 units

- Mechatronics Automation Project
- Design of Mechanical Components
- Dynamic Modelling and Control
- Artificial and Machine Intelligence
- Engineering Graphics
- Embedded Systems Engineering
- Mechatronics Design Project
- Manufacturing for Mechatronics
- Engineering Sustainable Development

### Year 4 units

- Mechatronic Engineering Research Project 1
- Mechatronic Systems Design
- Mechatronic Engineering Research Project 2A
- Professional Engineering Practice
- Law for Engineers
- Elective units



## Course fee structure

To complete in Sri Lanka

### February 2025 (AUD)

|              | Semester 1 | Semester 2 |
|--------------|------------|------------|
| Year 1       | \$5,280    | \$5,280    |
| Year 2       | \$5,400    | \$5,400    |
| Year 3       | \$5,721    | \$5,721    |
| Year 4       | \$5,845    | \$5,845    |
| <b>Total</b> | \$44,492   |            |

### July 2025 (AUD)

|              | Semester 1 | Semester 2 |
|--------------|------------|------------|
| Year 1       | \$5,280    | \$5,400    |
| Year 2       | \$5,400    | \$5,721    |
| Year 3       | \$5,721    | \$5,845    |
| Year 4       | \$5,845    | \$5,981    |
| <b>Total</b> | \$45,193   |            |

**Disclaimer:** The above mentioned course fees are applicable for degree completion in Sri Lanka and subject to review and change per Curtin University policies.

### Apply for merit scholarships

Curtin Colombo's merit-based scholarships provide financial, educational, and professional assistance, affording you enhanced prospects for skill development, broader horizons, and an enriched repertoire of accomplishments. Each scholarship varies in terms of eligibility requirements, application processes, and deadlines, so it's advisable to review these details well in advance.



*“The theory based modules in my engineering degree proved invaluable during my training period, enabling me to grasp the technological aspects with ease.*”

**Thimeth Jayasinghe**

**Bachelor of Engineering (Honours)  
(Electrical and Electronic Engineering)**



# Complete Engineering Foundation Year (EFY) and transfer to Curtin Perth to explore more engineering study options

Explore a diverse range of engineering study options at Curtin Perth, in addition to those offered at Curtin Colombo. The Perth campus provides opportunities in various engineering disciplines, allowing you to tailor your education to your specific interests and career goals.

The Engineering Foundation Year (EFY) serves as a common foundation for all engineering disciplines, providing students at Curtin Colombo with a flexible pathway. This flexibility enables transferring students to Curtin Perth the opportunity to explore a broader spectrum of study options, such as mining engineering and chemical engineering. Embrace the possibilities and pave your way to a diverse and rewarding engineering education.

## Additional Bachelor of Engineering majors at Curtin Perth

### Mining Engineering:

This major focuses on using cutting-edge technology to extract minerals safely and efficiently. Explore emerging mining tech like robotics and data analytics, delve into mining economics, consider Indigenous cultures, and contribute to sustainable development.

### Energy Engineering:

This innovative major addresses the demand for roles in energy efficiency, renewable energy technologies,

fossil-fuel reduction, hydrogen systems, geo-energy options, and environmental compliance. It provides comprehensive knowledge to conceive, design, build, and operate engineering processes aligned with a clean energy future, emphasizing environmental and social responsibility.

### Chemical Engineering:

Chemical engineering involves optimizing the sequence of chemical and physical processes, along with operating conditions, to transform raw materials into higher-value products. It covers the development, design, and management of processes and equipment for material extraction, conversion, and upgrading in various process industries.

### Industrial and Systems Engineering:

Industrial and systems engineers design, install, and enhance systems integrating people, materials, equipment, energy, information, and finance. They use engineering management techniques to ensure quality, safety, environmental sustainability, and human needs are met, evaluating, and predicting outcomes of change.

### Metallurgical Engineering:

Metallurgical engineers work on converting raw metals and minerals into usable formats. This major teaches the design, development, optimization, and management of metallurgical processing plants, transforming low-value raw materials into high-value mineral and metal products in an economical and environmentally responsible manner.

### Software Systems Engineering:

Software engineers create computer-based systems, from mobile apps to electric vehicles, shaping everyday life and diverse industries. This course teaches software development through principles of design, measurement, analysis, and emerging technologies. Gain a solid foundation in computer science and electrical engineering, emphasizing software requirements, design, implementation, industrial and embedded systems, and testing.

### How to Apply for EFY Transfer Pathway:

- Complete the Engineering Foundation Year (EFY) at Curtin Colombo
- Choose your desired engineering major to study at Curtin University in Australia
- After completing your first semester, contact the Global Transfer Unit at Curtin Colombo for the application process

# Computing



# Software Engineering

## Degree

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Bachelor of Computing (Software Engineering)

## CRICOS CODE

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0100817

Designed to prepare you for a career in computing, this program will equip you with high level knowledge of computer processes and systems involved in software development. Aspects of modern computing, fundamental programming and theoretical knowledge is embedded into the teachings of the degree, followed by specialisation in software engineering.

In this major you will learn to design, measure, and analyse software-based systems. You'll receive a strong foundation in computer science with emphasis on the gathering, design, implementation, and testing of software requirements. You will also advance your communication and collaboration skills, how to apply your knowledge and skills to invent or develop solutions to a wide range of exciting and challenging problems in industry.

## Career opportunities

### Careers

- Software engineer
- Business analyst
- Full Stack developer
- UX engineer
- Software architect
- Project manager
- IOS/Android developer
- Software quality assurance engineer

### Industries

- Software development
- Game design and development
- Cyber security
- IT analysis

## Course structure

### Year 1 units

- Fundamental Concepts of Data Security
- Integrating Indigenous Science and STEM Foundations
- Introduction to Software Engineering
- Programming Design & Implementation
- Data Structures & Algorithms
- Unix & C Programming
- Linear Algebra
- Requirements Engineering

### Year 2 units

- Data Communications & Network Management
- Software Engineering Testing
- Object Oriented Software Engineering
- Operating Systems
- Distributed Computing
- Mobile Application Development
- Cyber Crime & Security Enhanced Programming
- Database Systems

### Year 3 units

- Human Computer Interaction
- Capstone Computing Project
- Design & Analysis of Algorithms
- Capstone Computing Project
- Software Engineering Concepts
- Elective units

# Cyber Security

## Degree

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Bachelor of Computing (Cyber Security)

## CRICOS CODE

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0100817

This course focuses on the key concepts and challenges in data protection and computer software security. You will examine both the high - and low - level practical aspects of computer security. High - level aspects include cryptography theory, data access policy development and security program management. Low - level aspects include computer forensics, network intrusion detection and incident handling.

You will also study theory behind new developments in computing, such as Machine Learning & incident handling in network defence.

Graduates will have the skills to identify and implement appropriate applications for specific scenarios, as well as an understanding of issues related to the protection of individual rights.

## Career opportunities

### Careers

- Security analyst
- Security engineer
- Security investigator
- Network security engineer
- Information assurance engineer
- IT auditor
- Security administrator

### Industries

- Applications and software development
- Game design and development
- Cyber security
- IT analysis

## Course structure

### Year 1 units

- Integrating Indigenous Science and STEM Foundations
- Introduction to Software Engineering
- Fundamental Concepts of Data Security
- Programming Design & Implementation
- Data Structures & Algorithms
- Unix & C Programming
- Linear Algebra & Statistics for Engineers
- Cyber Security Concepts

### Year 2 units

- Data Communications & Network Management
- Network Systems Design
- Operating Systems
- Unix Systems Programming
- Database Systems
- Cyber Crimes & Security Enhanced Programming
- Computing Topics
- Elective units

### Year 3 units

- Fundamental Concepts of Cryptography
- Machine Learning
- Capstone Cyber Security Project - 1
- Capstone Cyber Security Project - 2
- Cyber Security Intrusion Detection System & Incident Handling
- Penetrating Testing & Defence
- Elective units

# Information Technology

## Degree

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Bachelor of Information Technology

## CRICOS CODE

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0100818

This course will provide you with the skills and knowledge you need for a successful career in the rapidly evolving information and communications technology industry. It provides coverage of aspects of modern computing and computer networks. It covers fundamental programming and security knowledge as well as specializing in network programming and other aspects of distributed computing.

The course covers a wide range of knowledge areas in ICT, enabling students to find employment in a wider spectrum in the ICT industry or Academia.

## Career opportunities

### Careers

- Application engineer
- Software engineer
- Software quality assurance engineer
- Web developer
- IT educationist
- Development operations engineer (Devops)
- Systems & database administrator
- Data scientist
- IT managers

### Industries

- Applications and software development
- Cyber security
- IT analysis

## Course structure

### Year 1 units

- Fundamental Concepts of Data Security
- Integrating Indigenous Science and STEM Foundations
- Introduction to Software Engineering
- Fundamentals of Programming
- Data Structures & Algorithms
- Unix & C Programming
- Linear Algebra
- Computer Systems

### Year 2 units

- Data Communications & Network Management
- Network Systems Design
- Unix Systems Programming
- Operating Systems
- Database Systems
- Computing Topics
- Elective units

### Year 3 units

- Human Computer Interaction
- Capstone Computing Project 1
- Capstone Computing Project 2
- Distributed Networks
- Engineering Management
- Advanced Computer Communications
- Elective units

# Computer Systems and Networking

## Degree

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Bachelor of Science (Computer Systems and Networking)

## CRICOS CODE

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041280C

This course will provide you with the knowledge and skills required to pursue career opportunities in this rapidly expanding field. You will learn about computer network design and development technologies focusing on the design and support of distributed computer and telecommunication networks.

The course integrates current developments in wired and wireless networking and provides a comprehensive view of the industry. You will develop skills in network design and management, and the convergence of computer hardware, embedded systems, software, and telecommunications.

## Career opportunities

### Careers

- Network administrator/ Designer/ Engineer
- Infrastructure manager
- IT manager
- Communication engineer
- Cloud Engineer / Architect
- Embedded systems / SW designer

### Industries

- Government
- Production operational technology
- Professional, scientific & technical services
- Public administration & safety

## Course structure

### Year 1 units

- Linear Algebra & Statistics for Engineers
- Engineering Foundations: Principles, Design, and Communication
- Hardware Fundamentals
- Fundamentals of Programming /Programming Design & Implementation
- Data Structures & Algorithms
- Unix & C Programming
- Electronics
- Computer Systems

### Year 2 units

- Data Communications & Network Management
- Transmission and Interface design
- Operating Systems
- Database Systems
- Engineering Management
- Microcomputers
- Elective units

### Year 3 units

- Distributed networks
- Wireless Data Networks
- Computer Technology Project
- Computer Technology Project
- Network Engineering
- Embedded Systems Engineering
- Elective units



## Course fee structure

To complete in Sri Lanka

### February 2025 (AUD)

|              | Semester 1 | Semester 2 |
|--------------|------------|------------|
| Year 1       | \$ 4,068   | \$ 4,068   |
| Year 2       | \$ 4,292   | \$ 4,292   |
| Year 3       | \$ 4,381   | \$ 4,381   |
| <b>Total</b> | \$25,482   |            |

### July 2025 (AUD)

|              | Semester 1 | Semester 2 |
|--------------|------------|------------|
| Year 1       | \$ 4,068   | \$ 4,292   |
| Year 2       | \$ 4,292   | \$ 4,381   |
| Year 3       | \$ 4,381   | \$ 4,474   |
| <b>Total</b> | \$25,888   |            |

**Disclaimer:** The above mentioned course fees are applicable for degree completion in Sri Lanka and subject to review and change per Curtin University policies.

### Apply for merit scholarships

Merit based scholarships at Curtin Colombo offer financial, academic and career support, giving you more opportunities to gain new skills, expand your horizons and add to your portfolio of achievements. The scholarship has different eligibility criteria, application procedures and closing dates, so check these early.

Further information regarding Curtin Colombo merit based scholarships can be obtained by contacting the admissions team.



*“Computing courses at Curtin have a strong, practical focus. I believe if I put my heart and soul into the course I am following, I will have a strong foundation for my future.”*

**Shenelle De Mel**  
Bachelor of Information Technology

# Business



# Business Administration

## Degree

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Bachelor of Business Administration

## CRICOS CODE

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018007A

A Bachelor of Business Administration is an international qualification that develops broad business knowledge, ensuring you are a highly adaptive graduate ready to pivot to the needs of industry. You'll be cross-skilled in various areas of business, be ready to work in a dynamic environment and pivot to the needs of the industry.

## An elite global university

The BBA degree at Curtin Colombo is offered by Curtin Business School which is accredited by AACSB (Association to Advance Collegiate Schools of Business) and holds a 4 Palms of Excellence rating from the Eduniversal. Curtin are also a UN Principles of Responsible Management (PRME) signatory.

AACSB accreditation is awarded to business schools that meet the strict standards of quality academic and professional excellence and is known, worldwide, as the longest standing, most recognised form of academic accreditation an institution and its business programs can earn.

## Study our foundation units

In the first year of the Business degree program, you will explore core competencies in business, learn to use financial information to make informed and responsible decisions, and develop your business intelligence and analytical capabilities to interpret data in a meaningful way. You will complete management foundation units aligned to global trends, and develop skills across marketing, finance, human resources, project management and strategic management. You will graduate ready to meet the challenges of industry.

- Financial Decision Making
- Markets and Legal Framework
- Communication, Culture and Indigenous Perspectives in Business
- Strategic Career Design
- Analytics for Decision Making
- Introduction to Business Information Systems
- Organisational Behaviour
- Discovering Marketing
- Introduction to Finance Principles
- Project Management
- Human Resource Management

## Three business specialisations to broaden your horizons

In addition to the core units, you will study three specialisations during the course. The specialisation includes International Management, Digital Marketing and Innovation and Entrepreneurship. These give the freedom to personalise your degree, and enhance your career choices and marketability in the international business arena.

### ► International Management specialisation

This specialisation prepares students for their global career with a focus on managing international operations in cross-cultural or cross-national environments in emerging countries. Students learn to analyse the impact of the global as well as local environments on management and organisations, leadership,

### ► Digital Marketing specialisation

Digital Marketing specialisation opens the door to digital marketing and how it applies across the dynamic world of business and beyond. You can choose to study topics including how to manage retail and e-commerce businesses, create digital marketing strategies and manage social media platforms.

### ► Innovation and Entrepreneurship specialisation

This specialisation is designed for enterprising people who want to become entrepreneurs as founders of fast-growing businesses or work as internal corporate entrepreneurs for innovative organisations. You'll gain skills in problem solving, planning, organising, and managing innovation and develop your skills, knowledge, and expertise in starting, running and growing an entrepreneurial venture. This specialisation provides breadth in innovation, entrepreneurship, creativity, design thinking and prototyping for innovative individuals or those wishing to work as internal corporate entrepreneurs.

## Career opportunities

### Careers

- Entrepreneur
- Business partner
- Digital marketing specialist
- International business consultant
- Business development manager

### Industries

- Start-ups
- Advertising and marketing
- Diplomatic services
- Public sector
- Procurement

## Course structure

### Year 1 units

- Financial Decision Making
- Markets and Legal Frame Work
- Communication, Culture and Indigenous Perspectives in Business
- Strategic Career Design
- Analytics for Decision Making
- Introduction to Business Information System
- Organisational Behaviour
- Discovering Marketing

### Year 2 units

- Introduction to Finance Principles
- Project Management
- Human Resource Management
- Introduction to Global Business
- Marketing Across Borders
- Responsible Management in Asia
- Designing user experiences
- Managing operations
- Business and Sustainable Development

### Year 3 units

- Managing Change
- Management of Innovation
- Digital Marketing Strategy
- Retailing and E-Commerce
- Enhancing your Business Mind
- International Management
- Digital Interactive Prototyping in Marketing
- Managing Social Media Platforms
- Entrepreneurship
- Strategic Management
- International Human Resource Management

## Course fee structure

To complete in Sri Lanka

### February 2025 (AUD)

|              | Semester 1 | Semester 2 |
|--------------|------------|------------|
| Year 1       | \$ 4,068   | \$ 4,068   |
| Year 2       | \$ 4,292   | \$ 4,292   |
| Year 3       | \$ 4,381   | \$ 4,381   |
| <b>Total</b> | \$25,482   |            |

### July 2025 (AUD)

|              | Semester 1 | Semester 2 |
|--------------|------------|------------|
| Year 1       | \$ 4,068   | \$ 4,292   |
| Year 2       | \$ 4,292   | \$ 4,381   |
| Year 3       | \$ 4,381   | \$ 4,474   |
| <b>Total</b> | \$25,888   |            |

**Disclaimer:** The above mentioned course fees are applicable for degree completion in Sri Lanka and subject to review and change per Curtin University policies.

### Apply for merit scholarships

Merit based scholarships at Curtin Colombo offer financial, academic and career support, giving you more opportunities to gain new skills, expand your horizons and add to your portfolio of achievements. The scholarship has different eligibility criteria, application procedures and closing dates, so check these early.

Further information regarding Curtin Colombo merit based scholarships can be obtained by contacting the admissions team.



*“The Curtin Business Administration degree helps me broaden my horizons and marketability with the three specialisation. The industry exposure given throughout the degree program equips me with invaluable real-world insights that will bolster my future career prospects.”*

**Harini Gomes**

Bachelor of Business Administration

# *Become part of a vibrant and inclusive culture*



# How to apply



## 1. Find a course

### Find the right course for you

Visit [curtincolombo.lk](http://curtincolombo.lk) or refer to our program guide and select your preferred course.

## 2. Check the admission criteria

### ACADEMIC

You must achieve the minimum number of points required for your chosen course or follow the relevant foundation program to fulfill the admission criteria.

### ENGLISH

A minimum of 'C' pass in ordinary or advanced level or any other accepted English score is required.

### PREREQUISITES

All prerequisites of your chosen course must be met, if applicable.

## 3. Apply

### To apply

Visit: [curtincolombo.lk](http://curtincolombo.lk)

Email: [inquiries@curtincolombo.lk](mailto:inquiries@curtincolombo.lk)

Call: +94 76 555 8989 | +94 77 443 4432

# INQUIRE NOW

Name: \_\_\_\_\_

Contact no: \_\_\_\_\_ Email: \_\_\_\_\_

School: \_\_\_\_\_

## Highest education qualification

Advanced Level       Ordinary Level

## Examination type

G.C.E Local       Cambridge exam       Edexcel exam

A/L or O/L exam year: \_\_\_\_\_





## For more information

### Curtin Colombo

No 80, Nawam Mawatha Colombo 02, Sri Lanka.

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**Email:** [inquiries@curtincolombo.lk](mailto:inquiries@curtincolombo.lk)

**Web:** [www.curtincolombo.lk](http://www.curtincolombo.lk)

## Join the conversation



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