



Bachelor of Science Information Technology

The demand for graduates in the IT industry is high with excellent career opportunities.

This three year BSc in Information Technology bachelor's degree programme is delivered over 6 semesters with the final semester based in a company.

This practical degree programme focuses on how information technology helps to support the operation and growth of modern organisations. These organisations are increasingly relying on information technology to carry out key business functions.

Along with learning about IT systems you will also learn about Information Security which is a rapidly changing area of the IT industry. As more technology goes online, you will learn how private and sensitive information may be at risk, and the steps you can take to protect it.

The demand for graduates in the IT industry is high, with excellent career opportunities in areas such as IT Security, Network and Systems Administration, DevOps, Testing, QA, IT Services, Database Administration, Sales and Support, and Project Management.

The curriculum is designed to allow you to choose from a range of computer science elective modules as you progress through the degree programme.

The programme has a significant work placement element where students are placed with selected employers for up to 9 months starting in January of year three.

CIT **CORK**
INSTITUTE OF
TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

Undergraduate

This programme is delivered full-time over three academic years.

Contact us

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Department of Computer Science

The Department of Computer Science at Cork Institute of Technology is one of the largest Computer Science departments in Ireland. We offer a range of modern undergraduate programmes and a host of opportunities at master's degree and at PhD level. Our industry engaged programmes match the needs of our economy and have an excellent reputation for producing the most employable computer science graduates. These highly skilled graduates are in huge demand and contribute significantly to the development of the region. As technology plays a greater role in our society the growth in the demand for these graduates will continue year after year. Detailed programme descriptors can be viewed under the Computer Science link at <http://courses.cit.ie>.

Information Technology Programme Schedule

Click on each hyperlink below to view module descriptors. Please visit <http://cs.cit.ie/it> for further information.

Year 1 - Semester 1	CR	Year 1 - Semester 2	CR
Programming Fundamentals (SOFT6018)	5	Modular Programming (SOFT6017)	5
Web Develop Fundamentals (SOFT6007)	5	Introduction to Databases (COMP6041)	5
Computer Architecture (COMH6002)	5	Operating Systems in Practice (COMP6042)	5
Computer Security Principles (COMP6035)	5	Networking Fundamentals (COMP6027)	5
Maths for Computer Science (MATH6055)	5	Discrete Mathematics (MATH6004)	5
Creativity, Innovation & Teamwork (CMOD6001)	5	Physical Computing (COMP6043)	5
Year 2 - Semester 1	CR	Year 2 - Semester 2	CR
Linux Administration (COMP7036)	5	Internet & Network Services (COMP7011)	5
Database Design (SOFT7022)	5	Cyberethics (COMP7004)	5
Operating Systems (SOFT7006)	5	Windows Security (COMP7045)	5
Requirements Engineering (SOFT7007)	5	Virtualisation Technologies (COMP7041)	5
Routing & Switching Concepts (COMP7032)	5	Scaling and Managing Networks (COMP7033)	5
Server-Side Web Development (SOFT7008) (E)	5	Systems Scripting (COMP7044) (E)	5
Year 3 - Semester 1	CR	Year 3 - Semester 2	CR
IT Project Management (COMP7012)	5	Work Placement/Internship (PLAC7009)	30
Group Project (SOFT7003)	5		
Network Security (COMP8022)	5		
Data Centre Virtualisation (SOFT8019)	5		
Cloud Networking (COMP8055)	5		
Agile Processes (COMP7039) (E)	5		

Progression to Level 8 Honours Degree

Graduates of the BSc in Information Technology programme may progress to the final year of the BSc (Hons) in IT Management degree programme. All BSc in Information Technology graduates who achieve a grade of Merit 2 (50% or greater) will be automatically offered a place on the level 8 programme. Please visit <http://cs.cit.ie/itm> for further information.