BSc (Honours)
Web Development

"Websites should look good from the inside and out."
- Paul Cookson

This programme explores industry standard web development technologies and techniques. It focuses on the development of professional front and back-end web based systems using Java, HTML, CSS, JavaScript and PHP.

The World Wide Web is the single most important content and software distribution platform in the world today. Graduates pursuing a career involving Web Development can expect to work on many aspects of the web whether it's creating front-end interfaces, back-end software, or a combination of the two. A developer, with an understanding of all aspects of web development from the data layer to the visual interface that a user interacts with and the logic that connects the two, is of particular value in today's tech industry.

The programme develops modern skills in unison, encouraging students to develop complete solutions from start to finish utilising the abilities they have attained throughout the programme. This produces a graduate who has the capacity to take a project from the initial concept/design stage right through to delivering the complete final product.

A significant work placement element is included where students are placed with selected employers for up to 9 months starting in January of year three. This is normally a paid placement where you will gain significant on the job experience.

Undergraduate

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

Contact us

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INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ

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.

BSc (Honours) Software Development Programme Schedule

Click on each hyperlink below to view module descriptors. Please visit http://cs.cit.ie/web for more 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
Object Oriented Principles (SOFT7004)	5	Object Oriented Programming (COMP7013)	5
Database Design (SOFT7022)	5	NoSQL Data Architectures (COMP7037)	5
Server-side Web Development (SOFT7008)	5	Methods in User Experience (COMP7042)	5
Client-Side Web Development (SOFT7031)	5	OO Analysis and Design (SOFT7005)	5
Requirements Engineering (SOFT7007)	5	Interactive Client-Side Development (COMP7001)	5
Linear Data Structures & Algorithms (COMP7035)	5	Visual Design Principles (COMP7043) (E)	5

Year 3 - Semester 1	CR	Year 3 - Semester 2	CR
Distributed Systems Programming (SOFT8023)	5	Work Placement/Internship (PLAC7009)	30
Group Project (SOFT7003)	5		
Operating Systems (SOFT7006)	5		
Server-side Web Frameworks (COMP8001)	5		
Agile Processes (COMP7039)	5		
Programming Mobile Devices (SOFT7035) (E)	5		

Year 4 - Semester 1	CR	Year 4 - Semester 2	CR
Front-End Frameworks (SOFT8034)	5	Advanced Web Publishing Apps (COMP8003)	5
Project Research Phase (INTR8016)	5	Project Implementation Phase (INTR8015)	10
Security for Software Systems (COMP8050)	5	Progressive Web Applications (SOFT8039)	5
Interactive Data Visualisation (COMP8054)	5	Nonlinear Data Structures & Algorithms (COMP7038)	5
Scalable Microservices (SOFT8025)	5	User Experience Theory (SOFT8010)	5
Technical Writing Using XML (COMP7040) (E)	5		

CR = ECTS Credit, (E) = Example elective module. Work Placement is normally paid and organised by the department.