Degree structure

Level 4

Eight compulsory modules

Introduction to Programming I*

Introduction to Programming II

Computational Mathematics

Discrete Mathematics

Fundamentals of Computer Science

How Computers Work

Algorithms and Data Structures I

Web Development

Level 5

Eight compulsory modules

Object-oriented Programming

Software Design and Development

Programming with Data

Agile Software Projects

Computer Security

Graphics Programming

Algorithms and Data Structures II

Databases, Networks and the Web

Level 6

**Six modules plus
The Final Project**

BSc Computer Science

Six elective modules from
any of the specialisms

The Final Project

**BSc Computer Science
(Data Science)**

Data Science*

Databases and Advanced
Data Techniques*
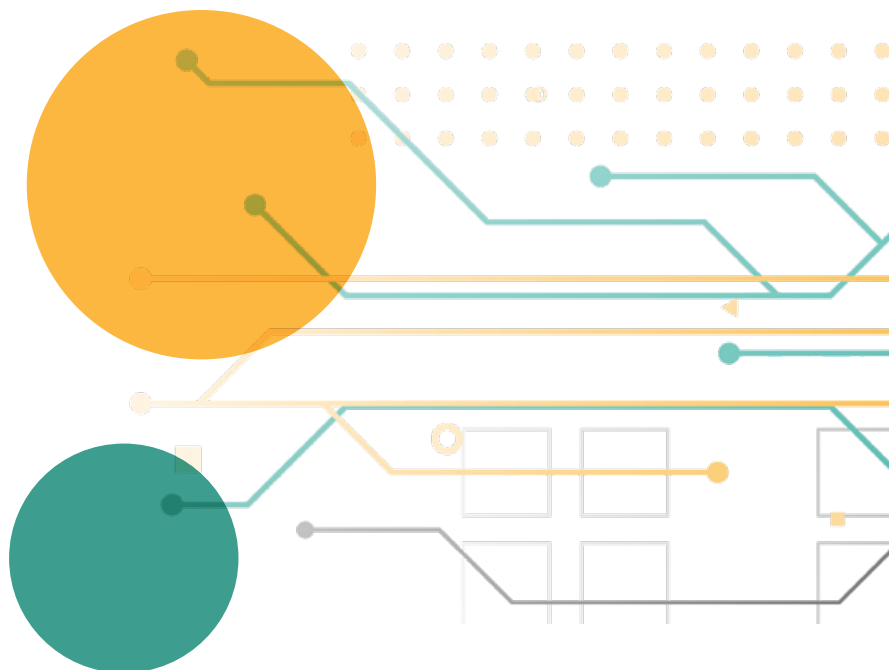
Machine Learning and
Neural Networks*

Advanced Web Development*

Natural Language Processing*

One elective from any
other specialism

The Final Project

*Core modules

Undergraduate programmes in Computer Science

BSc Computer Science (Games Development)

Artificial Intelligence*

Virtual Reality*

Games Development*

3D Graphics and Animation*

Interaction Design*

One elective from any other specialism

The Final Project

BSc Computer Science (Physical Computing and the Internet of Things)

Databases and Advanced Data Techniques*

Advanced Web Development*

Physical Computing and the Internet of Things*

Interaction Design*

Intelligent Signal Processing*

One elective from any other specialism

The Final Project

BSc Computer Science (Virtual Reality)

Virtual Reality*

Games Development*

3D Graphics and Animation*

Mobile Development*

Interaction Design*

One elective from any other specialism

The Final Project

BSc Computer Science (Machine Learning and Artificial Intelligence)

Databases and Advanced Data Techniques*

Machine Learning and Neural Networks*

Artificial Intelligence*

Intelligent Signal Processing*

Natural Language Processing*

One elective from any other specialism

The Final Project

BSc Computer Science (User Experience)

Virtual Reality*

Advanced Web Development*

Physical Computing and the Internet of Things*

Mobile Development*

Interaction Design*

One elective from any other specialism

The Final Project

BSc Computer Science (Web and Mobile Development)

Databases and Advanced Data Techniques*

Advanced Web Development*

3D Graphics and Animation*

Mobile Development*

Interaction Design*

One elective from any other specialism

The Final Project

*Core modules