

BSc (Hons) Computer Science

Computer Science/ Faculty of Science and Engineering

Year 1 Modules

Module Code	Module Title	Credits
CELEN036	Foundation Algebra for Physical Sciences & Engineering	10
CELEN039	Foundation Physics	10
CELEN048	Undergraduate Reading and Writing in Academic Contexts	20
CELEN069	Oral Communication Skills A	10
CELEN086	Introduction to Algorithms	10
CELEN037	Foundation Calculus and Mathematical Techniques	20
CELEN052	English in Specific Academic Contexts B (Engineering; Comp Sci; Env'mental Sci & Architecture)	20
CELEN082	Oral Communication Skills B	10
CELEN087	Introduction to Mathematical Software and Programming	10

Year 2 Modules

Module Code	Module Title	Credits
COMP1036	Computer Fundamentals	10
COMP1038	Programming and Algorithms	20
COMP1046	Mathematics for Computer Scientists	20
COMP1048	Databases and Interfaces	10
COMP1035	Software Engineering	10
COMP1037	Fundamentals of Artificial Intelligence	10
COMP1039	Programming Paradigms	20
COMP1047	Systems and Architecture	20

Year 3 Modules

Compulsory Modules

Module Code	Module Title	Credits
COMP2046	Operating Systems & Concurrency	20
COMP2059	Developing Maintainable Software	20
COMP2043	Software Engineering Group Project	20
COMP2068	Introduction to Formal Reasoning	10
COMP2069	Algorithms Data Structures and Efficiency	10
COMP2049	Languages and Computation	10

Optional Modules

Module Code	Module Title	Credits
COMP2044	Human Computer Interaction	10
COMP2045	C++ Programming	10
COMP2047	Introduction to Image Processing	10
COMP2051	Artificial Intelligence Methods	20

Year 4 Modules

Compulsory Modules

Module Code	Module Title	Credits
COMP3056	Professional Ethics in Computing	10
COMP3052	Computer Security	10

Optional Modules

Module Code	Module Title	Credits
COMP3053	Software Quality Assurance	10
COMP3055	Machine Learning	20
COMP3069	Computer Graphics	20
COMP3050	Individual Dissertation Single Honours	40
COMP3059	Mobile Device Programming	20
COMP3065	Computer Vision	20
COMP4107	Big Data	10

