**Programme Specification**

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| **Please note:** This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she passes the programme. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in the programme handbook. The accuracy of the information contained in this specification is reviewed by the University and may be checked by the Quality Assurance Agency for Higher Education. |

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| **BSc Computing****BSc Computing (Consultancy)****BSc Computing with a year in industry****BSc Computing (Consultancy) with a year in industry****One year ‘top up’ leading to BSc Computing**  |

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| 1. **Awarding Institution/Body**
 | University of Kent |
| 1. **Teaching Institution**
 | University of Kent  |
| 1. **School responsible for management of the programme**
 | School of Computing |
| 1. **Teaching Site**
 | Medway  |
| 1. **Mode of Delivery**
 | Full-time |
| 1. **Programme accredited by**
 | British Computer Society (BCS):Full Chartered IT Professional (CITP) |
| 1. **a) Final Award**
 | BSc (Hons)  |
| 7. **b) Alternative Exit Awards**  | BSc (non hons) Computing; BSc (non hons) Computing (Consultancy); BSc (non hons) Computing with a year in industry; BSc (non hons) Computing (Consultancy) with a year in industry; Diploma in Computing;Diploma in Computing (Consultancy);Diploma in Computing with a year in industry;Diploma in Computing (Consultancy) with a year in industry;Certificate in Computing;Certificate in Computing (Consultancy) |
| 1. **Programme**
 | ComputingComputing (Consultancy)Computing with a year in industryComputing (Consultancy) with a year in industryOne year ‘top up’ leading to BSc Computing |
| 1. **UCAS Code (or other code)**
 | G503, G508, G505, G509 |
| 1. **Credits/ECTS Value**
 | 360 (180 ECTS) for 3-year programmes, 480 (240 ECTS) for the 4 year programmes that include a year in industry. |
| 1. **Study Level**
 | Undergraduate |
| 1. **Relevant QAA subject benchmarking group(s)**
 | Computing 2016Business and Management 2015 |
| 1. **Date of creation/revision**
 | Mar 2017/revised Jun 2017/revised Aug 2017/revised FSO Dec 2017  |
| 1. **Intended Start Date of Delivery of this Programme**
 | September 2019 |

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| 1. **Educational Aims of the Programme**

The programme aims to: |
| * To provide a programme which will attract and meet the needs of those contemplating a career involving a significant element of information technology and those motivated primarily by intellectual interests in applied computing
* To provide a sound knowledge and systematic understanding of the principles of applied computing
* To provide generally applicable skills that will be of lasting value in a constantly changing field.
* To offer a range of modules covering the foundations of computing.
* To offer a range of options to enable students to study selected areas of computing in depth.
* To provide teaching which is informed by current research and scholarship and which requires students to engage with aspects of work at the frontiers of knowledge.
* To develop general critical, analytical and problem-solving skills that can be applied in a wide range of different applied computing settings.
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| **16 Programme Outcomes**The programme provides opportunities for students to develop and demonstrate knowledge and understanding, qualities, skills and other attributes in the following areas. The programme outcomes have references to the subject benchmarking statement for Computing 2016 (CO-SB) and Business and Management 2015 (BA-SB). |

**A. Knowledge and Understanding of:**

1. Hardware: the major functional components of a computer system. CO SB3.3(iii)

2. Software: programming languages and practice; tools and packages; computer applications; structuring of data and information. CO SB3.3(iii)

3. Communications and interaction: basic computer communication network concepts; communication between computers and people; the control and operation of computers. CO SB3.3(iii)

4. Practice: problem identification and analysis; design development, testing and evaluation. CO SB3.3(iii)

6. An understanding of the scientific method and its applications to problem solving in this area. CO SB3.3(ii).

10. Organisations, their environment and their management, including many or all of the following: the management of people, operations management, finance, marketing and organisational strategy. ( BA-SB3.4-3.6)

Outcomes specific to:

BSc Computing (Consultancy)

26. Computer consultancy organisations, including project planning and management, costing, marketing and strategic business development.

Outcomes specific to:

Year in Industry programmes:

13. Aspects of the core subject areas from the perspective of a commercial or industrial organisation.

Note: LOs numbered A5, A7-A9, A11, A12, A14-A25 are intentionally unused and relate to other current or former degree programmes belonging to the school.

**Skills and Other Attributes**

**B. Intellectual Skills:**

1. Modelling: knowledge and understanding in the modelling and design of computer-based systems in a way that demonstrates comprehension of the trade-off involved in design choices. CO SB3.3(iv)

2. Reflection and communication: present succinctly to a range of audiences rational and reasoned arguments. CO SB3.5(iv)

3. Requirements: identify and analyse criteria and specifications appropriate to specific problems and plan strategies for their solution. CO SB3.3(v)

4. Criteria evaluation and testing: analyse the extent to which a computer-based system meets the criteria defined for its current use and future development. CO SB3.3(vi)

5. Methods and tools: deploy appropriate theory, practices and tools for the specification, design, implementation, and evaluation of computer-based systems. CO SB3.3(vii)

6. Professional responsibility: Recognize and be guided by the professional, economic, social, environmental, moral and ethical issues involved in the sustainable exploitation of computer technology. CO SB3.3(viii)

7. Computational thinking: demonstrate a basic analytical ability and its relevance to everyday life. CO SB3.3(i) 9. Critically evaluate arguments and evidence ( BA-SB3.9(iii)).

10. Analyse and draw reasoned conclusions concerning structured and, to a more limited extent, unstructured problems ( BA-SB3.9(ii)).

Note: The LO numbered B8 is intentionally unused and relates to other current or former degree programmes belonging to the school.

**C. Subject-specific Skills:**

1. Design and implementation: specify, design and implement computer-based systems. CO-SB3.4(i)
2. Evaluation: evaluate systems in terms of general quality attributes and possible trade-offs presented within the given problem. CO SB3.4(ii)
3. Information management: apply the principles of effective information management, information organisation, and information retrieval skills to information of various kinds.
4. Tools: deploy effectively the tools used for the construction and documentation of software, with particular emphasis on understanding the whole process involved in using computers to solve practical problems. CO SB3.4(v)
5. The ability to plan and manage projects to deliver computing systems within the constraints of requirements, timescale and budget. CO-SB3.4(iii)
6. The ability to recognise any risks and safety aspects that may be involved in the deployment of computing systems within a given context. CO SB3.4(iv)
7. The ability to critically evaluate and analyse complex problems, argument and evidence, including those with incomplete information, and devise appropriate computing solutions, within the constraints of a budget. CO-SB3.4(vi)

Outcomes specific to:

BSc Computing (Consultancy)

22. Communicate effectively, orally and in writing about business issues within a Computer Consultancy context.

Note: LOs numbered C8-C21 are intentionally unused and relate to other current or former degree programmes belonging to the school.

**D. Transferable Skills:**

1. Teamwork: Be able to work effectively as a member of a development team. CO SB3.5(v)
2. Communication: make succinct presentations to a range of audiences about technical problems and their solutions. CO SB3.5(iv)
3. Information Technology: effective information-retrieval skills (including the use of browsers, search engines and catalogues). Effective use of general IT facilities.
4. Intellectual skills: critical thinking; making a case; numeracy and literacy; information literacy. The ability to construct well-argued and grammatically correct documents. The ability to locate and retrieve relevant ideas, and ensure these are correctly and accurately referenced and attributed. CO SB3.5(ii)
5. Self-management: managing one’s own learning and development including time management and organisational skills. CO SB3.5(iii)
6. Professional Development: Appreciating the need for continuing professional development in recognition of the need for lifelong learning. CO SB3.5(i)
7. Contextual awareness: the ability to understand and meet the needs of individuals, business and the community, and to understand how workplaces and organisations are governed. CO SB3.5(vi)
8. Sustainability: recognising factors in environmental and societal contexts relating to the opportunities and challenges created by computing systems across a range of human activities. CO SB3.5(vii)

**Teaching/learning and assessment methods and strategies used to enable the programme learning outcomes to be achieved and demonstrated**

Teaching/Learning

Acquisition is through lectures, supported in most modules by supervised classes and laboratory work. Self-directed learning is facilitated by study guides and web-based material.

Intellectual skills are developed through the teaching and learning programme outlined below. Students develop critical reflection by verbal and written discussion of key themes introduced in the core modules. Project work contributes to the development of these skills by providing the opportunity to consider larger practical problems.

Acquisition of computing specific skills is through lectures, classes and directed study. From the start of the programme, students receive guidance and gain practical experience via supervised practical classes and directed study. As the programme progresses, these skills are further encouraged by the introduction of larger scale problems and project work.

Assessment

Assessment is through a combination of unseen written examinations, assessed coursework and both individual and group project work. Coursework consists of both written reports and practical assignments.

General IT facilities are used throughout the programme for the preparation of written work. Browsers, search engines and catalogues are used for research and self-study material. All students have the opportunity to work within teams and make presentations of their work to both their peers and academic staff.

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| For more information on the skills developed by individual modules and on the specific learning outcomes associated with any Certificate, Diploma or BA/BSc non-honours awards relating to this programme of study, see the module mapping table, located at the end of this specification.  |

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| **17 Programme Structures and Requirements, Levels, Modules, Credits and Awards**This programme is studied over three years full-time. The programme is divided into three stages, each stage comprising modules to a total of 120 credits. Students must successfully complete each module in order to be awarded the specified number of credits for that module. One credit corresponds to approximately ten hours of 'learning time' (including all classes and all private study and research). Thus obtaining 120 credits in an academic year requires 1,200 hours of overall learning time. For further information on modules and credits refer to the Credit Framework at <http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfo.html> Each module and programme is designed to be at a specific level. For the descriptors of each of these levels, refer to Annex 2 of the Credit Framework at <http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfoannex2.html>. To be eligible for the award of an honours degree students must obtain 360 credits (480 including Placement Year), at least 210 of which must be at Level 5 or above, including at least 90 credits at level 6 or above at Stage 3.Students successfully completing Stage 1 of the programme and meeting credit framework requirements who do not successfully complete Stage 2 will be eligible for the award of the Certificate in Computing/Computing (Consultancy). Students successfully completing Stage 1 and Stage 2 of the programme and meeting Credit Framework requirements who do not successfully complete Stage 3 will be eligible for the award of the Diploma in Computing/Computing (Consultancy). Students successfully completing Stage 2 of the programme and achieving 300 credits overall including at least 60 credits at level 6 or above in Stage 3 and meeting Credit Framework requirements will be eligible for the award of a BSc non-honours degree.Students successfully completing Stage 2 and also the placement and meeting credit framework requirements will be eligible for the award of the Diploma with a Year in Industry. For further information refer to the Credit Framework at <https://www.kent.ac.uk/teaching/qa/credit-framework/creditinfo.html#exit-awards>. Compulsory modules are core to the programme and must be taken by all students studying the programme. Optional modules provide a choice of subject areas, from which students will select a stated number of modules. Where a student fails a module(s) due to illness or other mitigating circumstances, such failure may be condoned, subject to the requirements of the Credit Framework and provided that the student has achieved the **programme** learning outcomes. For further information refer to the Credit Framework at <http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfo.html>. Where a student fails a module(s), but has marks for such modules within 10 percentage points of the pass mark, the Board of Examiners may nevertheless award the credits for the module(s), subject to the requirements of the Credit Framework and provided that the student has achieved the **programme** learning outcomes. For further information refer to the Credit Framework. The following modules cannot be condoned or compensated:* CO320
* CO542
* CO792
* CO793
* CO600
* CO650

Under an articulation agreement with Mid Kent College, students gaining a Mid Kent College Foundation Degree in IT have direct entry to stage three of this programme via a one-year top variant of the final year. Students gaining a HND in IT can apply for and will be considered as candidates for entry to this one-year top up.  |

**BSc Computing**

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| **KV Code** | **Code** | **Title** | **Level** | **Credits** | **Term(s)** |
| **Stage 1** |
| **Compulsory Modules** |
| COMP3200 | CO320 | Introduction to object oriented programming.  | 4 | 15 | 1 or 2 |
| COMP3220 | CO322 | Foundations of computing I | 4 | 15 | 1 or 2 |
| COMP3240 | CO324 | Computer Systems | 4 | 15 | 1 or 2 |
| COMP3280 | CO328 | Human computer interaction | 4 | 15 | 1 or 2 |
| COMP3230 | CO323 | Databases and the web | 4 | 15 | 1 or 2  |
| COMP3290 | CO329 | Computer applications | 4 | 15 | 1 or 2 |
| COMP3340 | CO334 | People and computing | 4 | 15 | 1 or 2 |
| COMP5200 | CO520 | Further object-oriented programming | 5 | 15 | 1 or 2 |
| **Stage 2** |
| **Compulsory Modules** |
| COMP5510 | CO551 | Data Structures and Algorithms | 5 | 15 | 1 or 2 |
| COMP5390 | CO539 | Web development | 5 | 15 | 1 or 2 |
| COMP5520 | CO552 | Agile Development & Software Security A | 5 | 15 | 1 or 2 |
| COMP5xxx | CO5xx | AI Systems | 5 | 15 | 1 or 2 |
| COMP5530 | CO553 | Agile Development & Software Security B | 5 | 15 | 1 or 2 |
| COMP5540 | CO554 | Computing Theory and Concurrent Programming | 5 | 15 | 1 or 2  |
| COMP5320 | CO532 | Database Systems | 5 | 15 | 1 or 2 |
| COMP5440 | CO544 | Networking | 5 | 15 | 1 or 2 |
| **Stage S (4-year programmes only)** |
| **Compulsory Modules** |
| COMP7920 | CO792 | Industrial Placement Experience  | 5 | 90 | All year |
| COMP7930 | CO793 | Industrial Placement Report  | 5 | 30 | All year |
| **Stage 3** |
| **Compulsory Modules (one of the following)** |
| COMP6000 | CO600 | Project  | 6 | 30 | 1&2 |
| COMP6200 | CO620 | Research Project | 6 | 30 | 1&2 |
| COMP6500 | CO650 | IT Consultancy Project  | 6 | 30 | 1&2 |
| **Optional Modules** Students must select the remaining 60 credits from the Computing Stage 3 optional modules. Please note that Computing students cannot choose both CB729 and CB742 from the optional modules. |

**BSc Computing (Consultancy)**

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| **KV Code** | **Code** | **Title** | **Level** | **Credits** | **Term(s)** |
| **Stage 1** |
| **Compulsory Modules** |
| COMP3200 | CO320 | Introduction to object oriented programming.  | 4 | 15 | 1 or 2 |
| COMP3220 | CO322 | Foundations of computing I | 4 | 15 | 1 or 2 |
| COMP3240 | CO324 | Computer Systems | 4 | 15 | 1 or 2 |
| COMP3280 | CO328 | Human computer interaction | 4 | 15 | 1 or 2 |
| COMP3230 | CO323 | Databases and the web. | 4 | 15 | 1 or 2 |
| COMP3290 | CO329 | Computer applications | 4 | 15 | 1 or 2 |
| COMP3340 | CO334 | People and computing | 4 | 15 | 1 or 2 |
| COMP5200 | CO520 | Further object-oriented programming | 5 | 15 | 1 or 2 |
| **Stage 2** |
| **Compulsory Modules** |
| COMP5510 | CO551 | Data Structures and Algorithms | 5 | 15 | 1 or 2 |
| COMP5390 | CO539 | Web development | 5 | 15 | 1 or 2 |
| COMP5520 | CO552 | Agile Development & Software Security A | 5 | 15 | 1 or 2 |
| COMP5xxx | CO5xx | AI Systems | 5 | 15 | 1 or 2 |
| COMP5530 | CO553 | Agile Development & Software Security B | 5 | 15 | 1 or 2 |
| COMP5540 | CO554 | Computing Theory and Concurrent Programming | 5 | 15 | 1 or 2 |
| COMP5320 | CO532 | Database Systems | 5 | 15 | 1 or 2 |
| BUSN3710 | CB371 | Marketing Principles | 4 | 15 | 1 or 2 |
| **Stage S (4-year programmes only)** |
| **Compulsory Modules** |
| COMP7920 | CO792 | Industrial Placement Experience  | 5 | 90 | All year |
| COMP7930 | CO793 | Industrial Placement Report  | 5 | 30 | All year |
| **Stage 3** |
| **Compulsory Modules** |
| COMP6500 | CO650 | IT Consultancy Project  | 6 | 30 | 1&2 |
| COMP5440 | CO544 | Networking | 5 | 15 | 1 or 2 |
| **Optional Modules** Students must select the remaining 75 credits from the Computing Stage 3 optional modules. Please note that Computing (Consultancy) students cannot choose both CB729 and CB742 from the optional modules. |

**BSc Computing Stage 3 direct entry as a one-year top-up to a
Foundation Degree or HND in IT**

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| **KV Code** | **Code** | **Title** | **Level** | **Credits** | **Term(s)** |
| **Stage 3 for entry from HND and FD** |
| **Compulsory Modules** |
| COMP5420 | CO542 | Foundations of Information Technology and Computing  | 5 | 15 | pre-term |
| COMP6000 | CO600 | Project  | 6 | 30 | 1&2 |
| COMP5440 | CO544 | Networking | 5 | 15 | 1 or 2 |
| COMP5520 | CO552 | Agile Development & Software Security A | 5 | 15 | 1 or 2 |
| **Optional Modules** Students must select the remaining 60 credits from the Computing Stage 3 optional modules at level 6 or above. Please note that the above top-up programme has a total of 135 credits. |

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| **18 Work-Based Learning**Disability Statement: Where disabled students are due to undertake a work placement as part of this programme of study, a representative of the University will meet with the work placement provider in advance to ensure the provision of anticipatory and reasonable adjustments in line with legal requirements. |
| Where relevant to the programme of study, provide details of any work-based learning element, inclusive of employer details, delivery, assessment and support for students.  |
| * Industrial placement consists of Modules CO792 (90 credits) and CO793 (30 credits)
* The onus is on student to secure placement, with assistance from the School
* The School Industrial Placement Office oversees the placements and one of the placement officers will typically visit the students during their placement.
* If for any reason the industrial placement cannot be undertaken the student can transfer to the three year version of their programme.
* The placement is assessment via CO792 (which is pass/fail) by way of a portfolio and log book plus a performance evaluation by the industrial supervisor. The assessment is also assessed via CO793 by way of a placement report.
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| **19 Support for Students and their Learning** |
| * School and University induction programme
* Programme/module handbooks
* Library services <http://www.kent.ac.uk/library/>
* Student Support <http://www.kent.ac.uk/studentsupport/>
* Student Wellbeing [www.kent.ac.uk/studentwellbeing/](http://www.kent.ac.uk/studentwellbeing/)
* Centre for English and World Languages <http://www.kent.ac.uk/cewl/index.html>
* Student Learning Advisory Service <http://www.kent.ac.uk/uelt/about/slas.html>
* PASS system <https://www.kent.ac.uk/teaching/qa/codes/taught/annexg.html>
* Academic Adviser system <https://www.kent.ac.uk/teaching/advisers/index.html>
* Kent Union [www.kentunion.co.uk/](http://www.kentunion.co.uk/)
* Careers and Employability Services [www.kent.ac.uk/ces/](http://www.kent.ac.uk/ces/)
* Counselling Service https://www.kent.ac.uk/studentwellbeing/counselling/
* Information Services (computing and library services) [www.kent.ac.uk/is/](http://www.kent.ac.uk/is/)
* Undergraduate student representation at School, Faculty and Institutional levels
* International Recruitment Office <https://www.kent.ac.uk/internationalstudent/>; International Partnerships Office <https://www.kent.ac.uk/global/partnerships/>
* Medical Centre <https://www.kent.ac.uk/studentwellbeing/medicalcentre.html>

School-specific information about the support available* On-line Student Data System
* An extensive Computing website containing
* information on all Computing modules including where appropriate

module specificationdetails of any classesmodule assessmentcourse materialanonymous question pages* past examination papers
* staff/student liaison information including

details of student representatives minutes of meetings* Administrative support via the Administration Office
* Placement Co-ordinator and Industrial Liaison staff provide support for the Year in Industry
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| **20 Entry Profile**The minimum age to study a degree programme at the university is normally at least 17 years old by 20 September in the year the programme begins. There is no upper age limit. |
| 20.1 **Entry Route**For current information, please refer to the University prospectus |
| A level ABB GCSE Mathematics grade C Access to HE Diploma The University will not necessarily make conditional offers to all Access candidates but will continue to assess them on an individual basis. If we make you an offer, you will need to obtain/pass the overall Access to Higher Education Diploma and may also be required to obtain a proportion of the total level 3 credits and/or credits in particular subjects at merit grade or above. BTEC Level 3 Extended Diploma (formerly BTEC National Diploma) Distinction, Distinction, Merit International Baccalaureate 34 points overall or 16 points at HL including Mathematics 4 at HL or SLCandidates for:The one year top up leading to: BSc (Hons) ComputingMust have as a minimum a Foundation Degree or an HND in IT from Mid Kent College or other similarly accredited institution. |
| 20.2 **What does this programme have to offer?** |
| * High quality teaching that was rated “Excellent” after a visit by independent assessors from the Higher Education Funding Council
* Teaching that is informed by research activity, using research-led teaching whenever possible
* The development of a range of skills that are highly sought after by employers and which open up a wide range of careers to graduates
* Programming, modelling and design skills you can use throughout your career
* Strong links with industry that are maintained by an “Industrial Panel” and which result in industrial placements and joint research projects
* An optional year in industry that provides valuable experience
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| 20.3 **Personal Profile** |
| * an enthusiasm about computing and related subjects
* a willingness to accept new ideas and be flexible in your thinking
* a willingness to work with others
* good oral and written communication skills
* an interest in developing a career in a computing related area
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| 21 **Methods for Evaluating and Enhancing the Quality and Standards of Teaching and Learning** |
| 21.1 **Mechanisms for review and evaluation of teaching, learning, assessment, the curriculum and outcome standards** |
| * Student module evaluations
* Annual programme and module monitoring reports <http://www.kent.ac.uk/teaching/qa/codes/taught/annexe.html>
* External Examiners system <http://www.kent.ac.uk/teaching/qa/codes/taught/annexk.html>
* Periodic programme review <http://www.kent.ac.uk/teaching/qa/codes/taught/annexf.html>
* Annual staff appraisal
* Peer observation
* Quality Assurance Framework <http://www.kent.ac.uk/teaching/qa/codes/index.html>
* QAA Higher Education Review <http://www.qaa.ac.uk/InstitutionReports/types-of-review/higher-education-review/Pages/default.aspx>

School-specific information: * Student representation on key committees
* External accreditation of programmes
* Departmental staff acting as external examiners at other institutions
* Double marking and/or moderation of examinations and some assessed coursework
* Industrial links
* Evaluation of graduate destination statistics
* Departmental Director of Education
* Active staff development programme
* Continuous monitoring of student progress and attendance
* Module teams
* Programme Teams
* External accreditation by British Computer Society (BCS): Full Chartered IT Professional (CITP)
 |
| 21.2 **Committees with responsibility for monitoring and evaluating quality and standards** |
| * Staff-Student Liaison Committee
* School Education Committee
* Faculty Education Committee
* Faculty Board
* Education Board
* Board of Examiners
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| 21.3 **Mechanisms for gaining student feedback on the quality of teaching and their learning experience** |
| * Student module evaluations
* Staff-Student Liaison Committee
* Student rep system (School, Faculty and Institutional level)
* Annual NSS
	+ Discussions with senior tutor
	+ Newsgroups for computing students at Medway and for Applied Computing students on both campuses
	+ Anonymous question web pages for some individual modules
	+ Student programme evaluations
	+ Informal meetings and social contact with students (including student role in recruitment activities)
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| 21.4 **Staff Development priorities include:** |
| * PGCHE requirements
* HEA (associate) fellowship membership
* Annual appraisals
* Institutional Level Staff Development Programme
* Academic Practice Provision (PGCHE, other development opportunities)
* Professional body membership and requirements
* Programme team meetings
* Research seminars
* Conferences
* Study leave
* Equality, Diversity and Inclusivity (EDI) awareness

School-specific staff development opportunities* Staff training of various kinds including appraiser training, interview training, meeting skills, etc.
* Annual appraisal of staff
* Research group support for research-led teaching
* Annual away-days that cover a number of staff-related issues
* Module team meetings
* Regular formal and informal collaboration in programme development
* Attendance at relevant industry/business conferences/seminars
* Minimum expected qualifications for appointments to lecturing posts
* Minimum expected research record for appointments to lecturing posts
* Membership of relevant professional/academic bodies
* Widening participation
* Health and safety
* Participation on learning and teaching innovatory projects
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| 22 **Indicators of Quality and Standards** |
| * Results of periodic programme review (March 2012)
* Professional accreditation British Computer Society (BCS): Full Chartered IT Professional (CITP)
* QAA Higher Education Review 2015
* Annual External Examiner reports
* Annual programme and module monitoring reports

School-specific Indicators* Degree results and graduate recruitment statistics
* Independent review of the quality of educational provision in the School by the Higher Education Funding Council subject review process achieving an excellent rating.
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| 22.1 **The following reference points were used in creating these specifications:** |
| * QAA UK Quality Code for Higher Education http://www.qaa.ac.uk/assuring-standards-and-quality
* QAA Benchmarking statements for Computing (2016) and Business and Management 2015
* Accreditation requirements of British Computer Society (BCS): Full Chartered IT Professional (CITP)
* School and Faculty plan
* University Plan <https://www.kent.ac.uk/about/plan/> and Learning and Teaching Strategies https://www.kent.ac.uk/uelt/strategies/lta.html
* Staff research activities
* Kent Inclusive Practices (<https://www.kent.ac.uk/studentsupport/accessibility/inclusive-practice.html>)
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| 23 **Inclusive Programme Design**  |
| The School recognises and has embedded the expectations of current equality legislation, by ensuring that the programme is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services. |

*Template last updated November 2017*

Learning Outcomes Matrix for Computing Programmes

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Computing | A1 | A2 | A3 | A4 | A6 | A10 | A13 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B9 | B10 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 |
| **Required** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO320 |   | X |   | X |   |   |   | X |   |   |   |   | X | X |   |   | X | X |   | X |   |   |   |   |   | X |   | X |   |   |   |
| CO322 |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |
| CO324 | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   | X |
| CO334 | X | X | X |   |   | X |   |   | X |   |   |   | X |   | X |   |   |   |   |   |   | X |   | X | X | X |   | X | X | X | X |
| CO323 |   | X | X | X |   |   |   | X |   |   | X |   | X |   |   |   | X | X | X | X |   |   |   |   |   | X |   | X |   |   |   |
| CO328 |   |   | X | X |   |   |   | X |   | X |   |   | X |   |   |   | X | X | X | X |   |   |   | X |   | X |   | X |   |   |   |
| CO329 |   | X |   | X | X |   |   | X | X | X | X | X |   | X | X |   | X |   | X | X |   |   | X |   |   | X | X | X |   |   |   |
| CO520 |   | X |   | X | X |   |   | X |   |   |   | X | X | X |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO551 |   | X |   | X |   |   |   | X |   | X |   | X |   |   |   |   | X | X |   |   |   |   | X |   |   | X | X | X |   |   |   |
| CO539 |   | X | X | X |   |   |   | X |   | X | X | X |   |   |   |   | X | X | X | X |   | X |   |   |   | X |   | X |   |   |   |
| CO552 |   | X |   | X |   |   |   | X |   |   |   |   | X |   | X |   |   |   |   | X |   | X | X | X |   |   |   |   | X |   |   |
| CO553 |   | X |   | X | X |   |   |   |   |   | X | X |   |   | X |   |   |   | X |   | X |   | X |   |   |   |   |   |   | X |   |
| CO548 |   | X | X | X |   | X |   | X | X | X | X | X | X | X | X | X |   | X |   | X | X | X | X |   | X | X |   | X |   | X |   |
| CO532 |   | X |   | X |   |   |   | X | X | X |   |   |   |   | X |   | X | X | X |   |   |   |   |   | X | X |   | X |   |   |   |
| CO544 | X | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   | X | X | X |   |   |   | X |   | X | X |   | X |   |   |   |
| CO655 |   | X | X | X |   | X |   | X | X | X | X | X | X | X | X | X | X | X |   | X | X |   | X |   | X | X |   | X |   |   |   |
| **Year in industry** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO792 |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X | X | X | X |   |   |
| CO793 |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X | X | X | X |   |   |
| **One of** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO600 | O | X | O | X | X | X |  | O | X | X | X | X | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | O |
| CO650 | X | X | X | X |   | X |   | X | X | X | X | X | X |   |   |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X |   |

Notes: LO: A13 is only required for the Year in Industry version of this degree program.

 Modules CO792 and CO793 are only taken by students taking the year in industry version of this degree programme.

Optional Modules cover all programme learning outcomes irrespective of the combination taken.

Learning Outcomes Matrix for Computing(consultancy) Programmes

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Computing(cons) | A1 | A2 | A3 | A4 | A6 | A10 | A13 | A26 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B9 | B10 | C1 | C2 |  | C3 | C4 | C5 | C6 | C7 | C22 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 |
| **Required** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO320 |   | X |   | X |   |   |   |   | X |   |   |   |   | X | X |   |   | X | X |  |   | X |   |   |   |   |   |   | X |   | X |   |   |   |
| CO322 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |  |   |   |   |   |   |   |   |   |   | X | X |   |   |   |
| CO324 | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   | X | X |   |   |   |   | X |
| CO334 | X | X | X |   |   | X |   |   |   | X |   |   |   | X |   | X |   |   |   |  |   |   |   | X |   | X | X | X | X |   | X | X | X | X |
| CO323 |   | X | X | X |   |   |   |   | X |   |   | X |   | X |   |   |   | X | X |  | X | X |   |   |   |   |   |   | X |   | X |   |   |   |
| CO328 |   |   | X | X |   |   |   |   | X |   | X |   |   | X |   |   |   | X | X |  | X | X |   |   |   |   | X |   | X |   | X |   |   |   |
| CO329 |   | X |   | X | X |   |   |   | X | X | X | X | X |   | X | X |   | X |   |  | X | X |   |   | X |   |   |   | X | X | X |   |   |   |
| CO520 |   | X |   | X | X |   |   |   | X |   |   |   | X | X | X |   |   | X | X |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO551 |   | X |   | X |   |   |   |   | X |   | X |   | X |   |   |   |   | X | X |  |   |   |   |   | X |   |   |   | X | X | X |   |   |   |
| CO539 |   | X | X | X |   |   |   |   | X |   | X | X | X |   |   |   |   | X | X |  | X | X |   | X |   |   |   |   | X |   | X |   |   |   |
| CO552 |   | X |   | X |   |   |   |   | X |   |   |   |   | X |   | X |   |   |   |  |   | X |   | X | X |   | X |   |   |   |   | X |   |   |
| CO553 |   | X |   | X | X |   |   |   |   |   |   | X | X |   |   | X |   |   |   |  | X |   | X |   | X |   |   |   |   |   |   |   | X |   |
| CO548 |   | X | X | X |   | X |   |   | X | X | X | X | X | X | X | X | X |   | X |  |   | X | X | X | X |   |   | X | X |   | X |   | X |   |
| CO532 |   | X |   | X |   |   |   |   | X | X | X |   |   |   |   | X |   | X | X |  | X |   |   |   |   |   |   | X | X |   | X |   |   |   |
| CO544 | X | X | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X | X |  | X |   |   |   | X |   |   | X | X |   | X |   |   |   |
| CO655 |   | X | X | X |   | X |   |   | X | X | X | X | X | X | X | X | X | X | X |  |   | X | X |   | X |   |   | X | X |   | X |   |   |   |
| CO650 | X | X | X | X |   | X |   | X | X | X | X | X | X | X |   |   |   | X | X |  | X | X | X | X | X | X | X | X | X | X | X | X | X |   |
| CB371 |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   | X | X |   |   |  |   |   |   |   |   | X |   | X | X |   | X |   |   |   |
| **Year in industry** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO792 |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   | X | X | X | X | X | X |   |   |
| CO793 |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   | X | X | X | X | X | X |   |   |
| **Options** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO600 | O | X | O | X | X | X |  |   | O | X | X | X | X | X | X |   | X | X | X |  | X | X | X | X | X |   | X | X | X | X | X | X | X | O |
| CO634 | X | X | X |   |   |   |   |   |   |   | X | X | X | X |   |   |   | X | X |  |   |   |   | X | X |   |   |   | X | X | X |   |   |   |
| CO639 |   | X | X |   |   | X |   | X | X | X | X | X | X | X | X |   |   | X | X |  | X | X |   |   |   | X |   | X | X |   | X |   | X |   |
| CO644 |   | X |   |   |   |   |   |   |   |   | X |   | X | X |   |   |   |   | X |  | X |   |   |   |   |   |   | X | X |   | X |   |   | X |
| CO649 |   | X |   | X |   | X |   |   | X | X | X | X | X | X | X | X | X |   | X |  | X | X |   |   | X |   |   | X | X |   | X |   | X |   |
| CO656 |   | X |   | X |   |   |   |   | X | X | X |   | X |   | X |   |   | X | X |  | X |   |   |   |   |   |   | X | X |   | X |   |   |   |
| CO659 |   | X |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   | X |   |  | X |   |   |   |   |   |   | X | X |   | X |   |   |   |
| CO662 | X | X | X |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |  | X | X |   |   |   |   |   | X | X |   | X |   |   |   |
| CO816 |   |   |   | X |   | X |   |   | X | X | X |   | X | X | X |   |   | X | X |  | X |   |   |   |   |   |   | X | X |   | X |   |   |   |
| CB729 |   |   |   |   |   | X |   | X |   |   |   |   |   |   | X | X | X |   |   |  |   |   |   |   |   |   |   | X | X |   |   |   |   |   |
| CB742 |   |   |   |   |   | X |   | X |   |   |   |   |   |   | X | X | X |   |   |  |   |   |   |   |   |   |   | X | X |   |   | X |   |   |

Notes: LO: A13 is only required for the Year in Industry version of this degree program.

 Modules CO792 and CO793 are only taken by students taking the year in industry version of this degree programme.

Learning Outcomes Matrix for Computing (one-year top up) Programme

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Computing via FD/HND | A1 | A2 | A3 | A4 | A6 | A10 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | B9 | B10 | C1 | C2 | C3 | C4 | C5 | C6 | C7 | D1 | D2 | D3 | D4 | D5 | D6 | D7 | D8 |
| **Required** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO542 | X | X | X | X |   |   | X | X |   |   | X | X |   | X |   | X | X | X | X |   |   | X |   | X | X | X |   |   |   | X |
| CO600 | O | X | O | X | X | X | O | X | X | X | X | X | X |   | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | O |
| CO544 | X | X | X |   |   |   |   |   |   |   | X |   |   |   |   | X | X | X |   |   |   | X |   | X | X |   | X |   |   |   |
| CO547 | X | X | X | X |   |   | X | X | X | X | X | X |   |   |   | X | X | X | X | X | X |   | X | X | X |   | X |   |   |   |
| **Options** |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| CO634 | X | X | X |   |   |   |   |   | X | X | X | X |   |   |   | X | X |   |   |   | X | X |   |   | X | X | X |   |   |   |
| CO639 |   | X | X |   |   | X | X | X | X | X | X | X | X |   |   | X | X | X | X |   |   |   |   | X | X |   | X |   | X |   |
| CO644 |   | X |   |   |   |   |   |   | X |   | X | X |   |   |   |   | X | X |   |   |   |   |   | X | X |   | X |   |   | X |
| CO645 | X | X | X | X |   |   | X | X | X | X | X | X |   |   |   |   | X | X | X | X |   | X | X | X | X | X | X | X | X |   |
| CO649 |   | X |   | X |   | X | X | X | X | X | X | X | X | X | X |   | X | X | X |   |   | X |   | X | X |   | X |   | X |   |
| CO656 |   | X |   | X |   |   | X | X | X |   | X |   | X |   |   | X | X | X |   |   |   |   |   | X | X |   | X |   |   |   |
| CO659 |   | X |   |   |   |   |   | X |   |   | X |   |   |   |   | X |   | X |   |   |   |   |   | X | X |   | X |   |   |   |
| CO662 | X | X | X |   |   |   |   | X |   |   | X |   |   |   |   |   |   | X | X |   |   |   |   | X | X |   | X |   |   |   |
| CO816 |   |   |   | X |   | X | X | X | X |   | X | X | X |   |   | X | X | X |   |   |   |   |   | X | X |   | X |   |   |   |