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COURSE AND TERM DATES

2017/18

<table>
<thead>
<tr>
<th>Term</th>
<th>Start</th>
<th>End</th>
<th>Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>25 September 2017</td>
<td>15 December 2017</td>
<td>1–12</td>
</tr>
<tr>
<td>Spring</td>
<td>15 January 2018</td>
<td>6 April 2018</td>
<td>13–24</td>
</tr>
<tr>
<td>Summer</td>
<td>8 May 2018</td>
<td>16 September 2018</td>
<td>25–30</td>
</tr>
<tr>
<td>Courses End</td>
<td>2018</td>
<td>16 September</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2019</td>
<td>15 September</td>
<td></td>
</tr>
</tbody>
</table>

The information contained in this Handbook was correct at the time of going to print. The University, however, reserves the right to modify or cancel any statement in this Handbook (including the addition, withdrawal or restructuring of modules and programmes of study) at any time without prior notice.
1 Introduction

First of all, a warm welcome to those students starting a postgraduate degree. I hope you will find your chosen programme interesting, challenging and enjoyable. This handbook is designed to provide you with information about the organisation of the postgraduate programmes.

In any continually changing courses such as those offered by this School, problems will inevitably arise on occasion. If you do encounter problems, please do not hesitate to tell me about them. My email address, office telephone and room number are shown below (email is usually best). Likewise, I would be glad to hear ideas for long term improvements in the course.

The contents of this booklet were correct at the time of going to press, but please remember that since computing is a rapidly changing subject it may well be considered beneficial to make changes to the courses at relatively short notice in order to make the most of any new developments. Staff leave or illness may also necessitate changes. Please keep an eye on module web forums on moodle and notice boards for details of these.

Peter Kenny
Director of Graduate Studies (Taught)
e-mail: P.G.Kenny@kent.ac.uk, Extn: 7236, Room: S128.
September 2017

2 Programme Structure

The University operates a ‘credit framework’ for all its taught programmes of study. Detailed information on the credit framework may be found at https://www.kent.ac.uk/teaching/qa/credit-framework/index.html

Each programme is divided into study blocks called modules. Modules for these programmes have a value of 15, 30 or 60 credits and a level as follows:

Level 4
Level 5
Level 6
Level 7

The pass mark for modules at Levels 4 5 6 is 40%. The pass mark for modules at Level 7 is 50%.

The modules required for each programme are shown in Section 3; however, students who have been awarded credit on a taught module as part of a previous qualification at Kent are not normally permitted to repeat it as part of a new programme.

The department has published Programme Specifications for each of the programmes it offers. These are available at: http://www.kent.ac.uk/stms/studying/programmes/index.html. The postgraduate programmes listed below are offered this year. The Programme Director is Dr Peter Kenny.

MSc Computer Science
MSc Advanced Computer Science
MSc Advanced Computer Science (Cloud Computing and Big Data)
MSc Advanced Computer Science (Computational Intelligence)
MSc Advanced Software Development
MSc Computer Security
MSc Cyber Security
MSc Networks and Security
MSc Computing and Entrepreneurship
MSc IT Consultancy

2.1 MSc (standard)

The MSc programme is studied over 12 months on a full time basis or between two and three years part-time. There are two major components to the MSc: the taught component and the project.

The programme comprises a mixture of core and optional modules. For full-time students the taught component runs from the start of the programme through to the middle of the Summer Term. Part-time
students normally take half their taught modules (60 credits) in year 1, the other half in year 2 (60 credits) followed by the project (60 credits).

In the Autumn Term most students are divided into two streams according to their previous programming experience. Beginners take CO881 Object-Oriented Programming followed by CO882 Advanced Object-Oriented Programming (optional for IT Consultancy). Those who have studied programming before take CO871 Advanced Java for Programmers together with an extra optional module (if necessary). All MSc Advanced Software Development students must take CO871. MSc Cyber Security students do not take modules from either of the programming streams (CO871/881/882).

The Spring Term includes a mix of taught and project modules. IT Consultancy students undertake project work within the KITC on both the major project (CO843 Extended IT Consultancy Project) and in CO845 New Enterprise Development. For other programmes module CO885 Project Research is closely linked to the major project and includes supporting workshops on research methods.

Examinations are held in the first half of the Summer Term. The CO880 project runs/resumes after examinations through to the end of the programme; IT Consultancy students resume their CO843 work from the start of Summer Term.

2.2 MSc for Epitech students

Epitech students may only register for the following programmes:

- MSc Advanced Computer Science
- MSc Advanced Computer Science (Computational Intelligence)
- MSc Computer Security
- MSc Cyber Security
- MSc Networks and Security
- MSc Computing and Entrepreneurship

Some adjustments apply to students from Epitech who are attending an MSc programme at Kent under the partnership arrangement between the two institutions:

- Epitech students who have previously studied Java as part of their course at Epitech do not take modules from either of the programming streams (CO871/881/882). They must select an additional 15-credit option for the Autumn term instead.
- Epitech students who have not previously studied Java must select the advanced programming stream (CO871).
- Epitech students registered on the MSc Computer Security and MSc Networks and Security programmes have access to a special optional module EL857 Biometric Technologies if they are also taking EL844 Image Analysis with Security Applications but not the Java module CO871 (and hence have two option slots in the first term).
- Epitech students are not permitted to take the following modules:
  - CO886 Software Engineering
  - CO887 Web-based Information Systems Development
  - CO889 C++ Programming

2.3 MSc with an Industrial Placement

Each of the MSc programmes can be combined with an industrial placement. These programmes are available on a full-time basis only. Placements may vary in length from 8 to 50 weeks, extending the MSc programme to between 14 and 24 months. The duration and starting date depend on the employer. Placements are generally undertaken in the UK but overseas placements may sometimes be offered.

Further information is provided in Section 3.15 of this handbook.
2.4 Module Requirements
The tables in the remainder of this section give details of compulsory and optional modules for each programme of study.

Information about the process and deadline for registration of modules will accompany this handbook. In choosing optional modules you should ensure that you have taken or are taking necessary pre-requisite modules (see tables in Section 3). Registration on optional modules is also subject to timetable constraints.

The online module catalogue http://www.kent.ac.uk/courses/modulecatalogue/index.html contains information about all academic modules taught at the University. You can browse collections of modules or can search by module code or module title.

**IT IS ULTIMATELY YOUR RESPONSIBILITY TO ENSURE THAT YOU ARE REGISTERED FOR THE CORRECT MODULES FOR YOUR PROGRAMME.**

2.5 Pass Mark
With effect from 2015/16, the pass mark for all level 7 modules changed to 50%. Marks for students who have had marks allocated for level 7 modules prior to the implementation of this but whose degrees will not be classified until 2016/17 or thereafter will be converted to the 50% pass scale.

2.6 LZ600 Advanced English for Academic Study
This 15 credit module provides support for international students who are not native speakers and who are taking any taught postgraduate course in the School of Computing. In the Autumn Term it can be studied alongside MSc modules. Students who fail the end of term assessment will be required to continue with the module in the Spring Term at which point it will form part of the MSc programme.
3 Programme Requirements: Standard MSc

3.1 MSc Computer Science

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO883</td>
<td>Systems Architecture</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO884</td>
<td>Logic and Logic Programming</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO886</td>
<td>Software Engineering</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO887</td>
<td>Web-based Information Systems Development</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
<td>60</td>
</tr>
</tbody>
</table>

Together with

Either (if you have not studied programming before)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO881</td>
<td>Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

and

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO882</td>
<td>Advanced Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

Or (if you have studied programming before)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO871</td>
<td>Advanced Java for Programmers</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

If CO871 is taken a further 15 credits must be chosen from the following options in the Autumn Term:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO836</td>
<td>Cognitive Neural Networks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts &amp; Professional</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Responsibility</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

All students choose 15 credits from the following options in the Spring Term:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO528</td>
<td>Introduction to Intelligent Systems</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>CO641</td>
<td>Computer Graphics and Animation</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice 2</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>
### MSc Advanced Computer Science

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required modules</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Together with</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Either (if you have <em>not</em> studied programming before)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO881</td>
<td>Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>and</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO882</td>
<td>Advanced Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Or (if you <em>have</em> studied programming before)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO871</td>
<td>Advanced Java for Programmers</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Together with options from the following totalling 30 or 45 credits depending on whether you are taking 30 or 15 credits or programming modules:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO836</td>
<td>Cognitive Neural Networks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO837</td>
<td>Natural Computation</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts &amp; Professional Responsibility</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO894</td>
<td>Development Frameworks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>All students choose 45 credits from the following options in the Spring Term:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO528</td>
<td>Introduction to Intelligent Systems</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO545</td>
<td>Functional and Concurrent Programming</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO641</td>
<td>Computer Graphics and Animation</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice 2</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO834</td>
<td>Trust, Security and Privacy Management</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO838</td>
<td>Internet of Things and Mobile Devices</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO884</td>
<td>Logic and Logic Programming</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO890</td>
<td>Concurrency and Parallelism</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO892</td>
<td>Advanced Network Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO899</td>
<td>System Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
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</tr>
</tbody>
</table>
### 3.3 MSc Advanced Computer Science (Cloud Computing and Big Data)

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term Taught</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
<td>60</td>
</tr>
</tbody>
</table>

**Required modules**

Together with

Either *(if you have not studied programming before)*

- CO881 Object-Oriented Programming
  
  and

- CO882 Advanced Object-Oriented Programming

Or *(if you have studied programming before)*

- CO871 Advanced Java for Programmers

Together with options from the following totalling 15 or 30 credits depending on whether you are taking 30 or 15 credits or programming modules:

- CO836 Cognitive Neural Networks
  
  - Autumn
  
  - 7
  
  - 15

- CO837 Natural Computation
  
  - Autumn
  
  - 7
  
  - 15

- CO841 Computing Law, Contracts & Professional Responsibility
  
  - Autumn
  
  - 7
  
  - 15

- CO874 Networks and Network Security
  
  - Autumn
  
  - 7
  
  - 15

- CO876 Computer Security
  
  - Autumn
  
  - 7
  
  - 15

- CO889 C++ Programming
  
  - Autumn
  
  - 7
  
  - 15

- CO894 Development Frameworks
  
  - Autumn
  
  - 7
  
  - 15

All students choose 15 credits from the following options in the Spring Term:

- CO528 Introduction to Intelligent Systems
  
  - Spring
  
  - 5
  
  - 15

- CO545 Functional and Concurrent Programming
  
  - Spring
  
  - 5
  
  - 15

- CO641 Computer Graphics and Animation
  
  - Spring
  
  - 6
  
  - 15

- CO645 IT Consultancy Practice 2
  
  - Spring
  
  - 6
  
  - 15

- CO834 Trust, Security and Privacy Management
  
  - Spring
  
  - 7
  
  - 15

- CO838 Internet of Things and Mobile Devices
  
  - Spring
  
  - 7
  
  - 15

- CO884 Logic and Logic Programming
  
  - Spring
  
  - 7
  
  - 15

- CO890 Concurrency and Parallelism
  
  - Spring
  
  - 7
  
  - 15

- CO892 Advanced Network Security
  
  - Spring
  
  - 7
  
  - 15

- CO899 System Security
  
  - Spring
  
  - 7
  
  - 15
### 3.4 MSc Advanced Computer Science (Computational Intelligence)

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
<td>60</td>
</tr>
</tbody>
</table>

**Required modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO881</td>
<td>Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO882</td>
<td>Advanced Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

**Together with**

Either (if you have not studied programming before)

- CO881 Object-Oriented Programming                    Autumn 7 15

**Or** (if you have studied programming before)

- CO871 Advanced Java for Programmers      Autumn 7 15

**Together with at least two modules (30 credits) from the following list:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO836</td>
<td>Cognitive Neural Networks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO837</td>
<td>Natural Computation</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO884</td>
<td>Logic and Logic Programming</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

The remaining modules to be taken from the following list, ensuring overall an even balance between the Autumn and Spring Terms

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts &amp; Professional Responsibility</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO894</td>
<td>Development Frameworks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO528</td>
<td>Introduction to Intelligent Systems</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>CO545</td>
<td>Functional and Concurrent Programming</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>CO641</td>
<td>Computer Graphics and Animation</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice 2</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO838</td>
<td>Internet of Things and Mobile Devices</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO834</td>
<td>Trust, Security and Privacy Management</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>Spring</td>
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<td>15</td>
</tr>
<tr>
<td>CO890</td>
<td>Concurrency and Parallelism</td>
<td>Spring</td>
<td>7</td>
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<td>CO892</td>
<td>Advanced Network Security</td>
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<tr>
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<td>Spring</td>
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</table>
3.5 MSc Advanced Software Development

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
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<tr>
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<th>Title</th>
<th>Term Taught</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO838</td>
<td>Internet of Things and Mobile Devices</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO871</td>
<td>Advanced Java for Programmers</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO890</td>
<td>Concurrency and Parallelism</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO894</td>
<td>Development Frameworks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
<td>60</td>
</tr>
</tbody>
</table>

Required modules

All students choose 15 credits from the following options in the Autumn Term:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term Taught</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO836</td>
<td>Cognitive Neural Networks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts &amp; Professional Responsibility</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO837</td>
<td>Natural Computation</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

All students choose 15 credits from the following options in the Spring Term:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term Taught</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO528</td>
<td>Introduction to Intelligent Systems</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO641</td>
<td>Computer Graphics and Animation</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice 2</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO899</td>
<td>System Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>
3.6 MSc Computer Security

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO834</td>
<td>Trust, Security and Privacy Management</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO899</td>
<td>System Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
<td>60</td>
</tr>
</tbody>
</table>

**Required modules**

Together with

**Either** *(if you have not studied programming before)*

CO881 Object-Oriented Programming

and

CO882 Advanced Object-Oriented Programming

**Or** *(if you have studied programming before)*

CO871 Advanced Java for Programmers

If CO871 is taken a further 15 credits must be taken from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO836</td>
<td>Cognitive Neural Networks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO837</td>
<td>Natural Computation</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts &amp; Professional Responsibility</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO883</td>
<td>Systems Architecture</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO894</td>
<td>Development Frameworks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>EL844</td>
<td>Image Analysis with Security Applications</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
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</tbody>
</table>

All students choose 15 credits from the following options in the Spring Term:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO528</td>
<td>Introduction to Intelligent Systems</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
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<tr>
<td>CO545</td>
<td>Functional and Concurrent Programming</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice 2</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO838</td>
<td>Internet of Things and Mobile Devices</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO890</td>
<td>Concurrency and Parallelism</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO892</td>
<td>Advanced Network Security</td>
<td>Spring</td>
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<td>15</td>
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</tbody>
</table>
### 3.7 MSc Cyber Security

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
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<tr>
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<th>Title</th>
<th>Term Taught</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts &amp; Professional Responsibility</td>
<td>Autumn</td>
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<td>15</td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>EL844</td>
<td>Image Analysis with Security Applications</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO834</td>
<td>Trust, Security and Privacy Management</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO892</td>
<td>Advanced Network Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
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<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
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<tr>
<td>CO899</td>
<td>System Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
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<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
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<td>60</td>
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</tbody>
</table>

*This programme has no optional modules.*
### 3.8 MSc Networks and Security

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<th>Level</th>
<th>Credit</th>
<th>Value</th>
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<tbody>
<tr>
<td>CO838</td>
<td>Internet of Things and Mobile Devices</td>
<td>Spring</td>
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<td>15</td>
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<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
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<td>15</td>
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</tr>
<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
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</tr>
<tr>
<td>CO892</td>
<td>Advanced Network Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
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</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
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**Required modules**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>CO881</td>
<td>Object-Oriented Programming</td>
<td>Autumn</td>
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<td>15</td>
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<tr>
<td>CO882</td>
<td>Advanced Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
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</tbody>
</table>

**Together with**

**Either** *(if you have not studied programming before)*

- CO881 Object-Oriented Programming
- CO882 Advanced Object-Oriented Programming

**Or** *(if you have studied programming before)*

- CO871 Advanced Java for Programmers

If CO871 is taken a further 15 credits must be taken from the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO836</td>
<td>Cognitive Neural Networks</td>
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<td>15</td>
<td></td>
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<tr>
<td>CO837</td>
<td>Natural Computation</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts &amp; Professional Responsibility</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO883</td>
<td>Systems Architecture</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO894</td>
<td>Development Frameworks</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>EL844</td>
<td>Image Analysis with Security Applications</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
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</table>

All students choose 15 credits from the following options in the Spring Term:

<table>
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<tr>
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<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO528</td>
<td>Introduction to Intelligent Systems</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO545</td>
<td>Functional and Concurrent Programming</td>
<td>Spring</td>
<td>5</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice 2</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO834</td>
<td>Trust, Security and Privacy Management</td>
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<td>15</td>
<td></td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
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<tr>
<td>CO890</td>
<td>Concurrency and Parallelism</td>
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<td>7</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>CO899</td>
<td>System Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>
### 3.9 MSc Computing and Entrepreneurship

Students take a total of 180 credits, at least 150 of which must be at Level 7.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
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<td><strong>Required modules</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts and Professional Responsibility</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO845</td>
<td>New Enterprise Development</td>
<td>Autumn and Spring</td>
<td>7</td>
<td>30</td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>Summer</td>
<td>7</td>
<td>60</td>
</tr>
</tbody>
</table>

**Together with**

*Either* *(if you have not studied programming before)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO881</td>
<td>Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

*Or* *(if you have studied programming before)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO871</td>
<td>Advanced Java for Programmers</td>
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<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

**Together with modules totalling 15 credits from:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
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<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO882</td>
<td>Advanced Object-Oriented Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO887</td>
<td>Web-based Information Systems Development</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CB932</td>
<td>Management of Operations</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CB937</td>
<td>Financial and Management Accounting</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>

**And 30 credits from:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice 2</td>
<td>Spring</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>CO834</td>
<td>Trust, Security and Privacy Management</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO892</td>
<td>Advanced Network Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO899</td>
<td>System Security</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CB9067</td>
<td>Digital Marketing</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CB904</td>
<td>Structure and Organisation of the E-Commerce Enterprise</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CB934</td>
<td>Strategy</td>
<td>Spring</td>
<td>7</td>
<td>15</td>
</tr>
</tbody>
</table>
### 3.10 MSc IT Consultancy

Students take a total of 180 credits, at least 150 of which must be at Level 7. Students will be expected to familiarise themselves with the projects being undertaken by KITC from the start of the Autumn Term; however, their participation in the work of the KITC will take place mainly during the Spring Term and through to early September.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Term Taught</th>
<th>Level</th>
<th>Credit Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB932</td>
<td>Management of Operations</td>
<td>Autumn</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO845</td>
<td>New Enterprise Development</td>
<td>Autumn and Spring</td>
<td>7</td>
<td>30</td>
</tr>
<tr>
<td>CO843</td>
<td>Extended IT Consultancy Project</td>
<td>All</td>
<td>7</td>
<td>60</td>
</tr>
</tbody>
</table>

**Required modules**

- **Either** *(if you have not studied programming before)*
  - CO881 Object-Oriented Programming (Autumn 7 15)
- **Or** *(if you have studied programming before)*
  - CO871 Advanced Java for Programmers (Autumn 7 15)

**All students choose 30 credits from the following options in the Autumn Term (see note below):**

- CO841 Computing Law, Contracts and Professional Responsibility* (Autumn 7 15)
- CO846 Cloud Computing (Autumn 7 15)
- CO874 Networks and Network Security (Autumn 7 15)
- CO876 Computer Security (Autumn 7 15)
- CO882 Advanced Object-Oriented Programming (Autumn 7 15)
- CO887 Web-based Information Systems Development* (Autumn 7 15)
- CO889 C++ Programming (Autumn 7 15)
- CO894 Development Frameworks (Autumn 7 15)
- CB937 Financial and Management Accounting (Autumn 7 15)

**And a further 30 credits from the following options in the Spring Term (see note below):**

- CO834 Trust, Security and Privacy Management (Spring 7 15)
- CO839 Data Science (Spring 7 15)
- CO892 Advanced Network Security (Spring 7 15)
- CO899 System Security (Spring 7 15)
- CB9067 Digital Marketing (Spring 7 15)
- CB904 Structure and Organisation of the E-Commerce enterprise (Spring 7 15)
- CB934 Strategic Management (Spring 7 15)

**Note:** Modules marked * are particularly recommended for students who haven't studied these topics before.
### 3.11 Computing Modules: level 7 modules, credits, terms weightings and pre-requisites

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Title</th>
<th>Level</th>
<th>Credits</th>
<th>ECTS Credits</th>
<th>Term (see Note 1)</th>
<th>Module Weightings</th>
<th>Pre-requisites and co-requisites</th>
<th>See Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO832</td>
<td>Data Mining and Knowledge Discovery</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>20</td>
<td>80</td>
<td>CO871 or CO882</td>
</tr>
<tr>
<td>CO834</td>
<td>Trust, Security and Privacy Management</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>30</td>
<td>70</td>
<td>CO876</td>
</tr>
<tr>
<td>CO836</td>
<td>Cognitive Neural Networks</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>30</td>
<td>70</td>
<td>None</td>
</tr>
<tr>
<td>CO837</td>
<td>Natural Computation</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>40</td>
<td>60</td>
<td>See note 11</td>
</tr>
<tr>
<td>CO838</td>
<td>Internet of Things and Mobile Devices</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>100</td>
<td>CO871 or either CO876 and either CO871 or CO882 None</td>
<td></td>
</tr>
<tr>
<td>CO839</td>
<td>Data Science</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>50</td>
<td>50</td>
<td>None</td>
</tr>
<tr>
<td>CO841</td>
<td>Computing Law, Contracts and Professional Responsibility Extended IT Consultancy Project</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>50</td>
<td>50</td>
<td>None</td>
</tr>
<tr>
<td>CO843</td>
<td>New Enterprise Development</td>
<td>7</td>
<td>30</td>
<td>15</td>
<td>A&amp;S</td>
<td>100</td>
<td>None</td>
<td>3,6</td>
</tr>
<tr>
<td>CO846</td>
<td>Cloud Computing</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>50</td>
<td>50</td>
<td>See note 13</td>
</tr>
<tr>
<td>CO871</td>
<td>Advanced Java for Programmers</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
<td>See note 10</td>
<td>3,7,10</td>
</tr>
<tr>
<td>CO874</td>
<td>Networks and Network Security</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>25</td>
<td>75</td>
<td>See note 17</td>
</tr>
<tr>
<td>CO876</td>
<td>Computer Security</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>40</td>
<td>60</td>
<td>See note 17</td>
</tr>
<tr>
<td>CO880</td>
<td>Project and Dissertation</td>
<td>7</td>
<td>60</td>
<td>30</td>
<td>All</td>
<td>100</td>
<td>CO885</td>
<td>2,4,9</td>
</tr>
<tr>
<td>CO881</td>
<td>Object-Oriented Programming</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
<td>None</td>
<td>1,7</td>
</tr>
<tr>
<td>CO882</td>
<td>Advanced OO Programming</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
<td>CO881</td>
<td>7</td>
</tr>
<tr>
<td>CO883</td>
<td>Systems Architecture</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>25</td>
<td>75</td>
<td>CO871/CO881</td>
</tr>
<tr>
<td>CO884</td>
<td>Logic and Logic Programming</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>25</td>
<td>75</td>
<td>CO881 and CO882, Or CO871</td>
</tr>
<tr>
<td>CO885</td>
<td>Project Research</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>100</td>
<td>None</td>
<td>9</td>
</tr>
<tr>
<td>CO886</td>
<td>Software Engineering</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>50</td>
<td>50</td>
<td>CO882 or CO871</td>
</tr>
<tr>
<td>CO887</td>
<td>Web-based Information Systems Development</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>50</td>
<td>50</td>
<td>CO882 or CO871</td>
</tr>
<tr>
<td>CO889</td>
<td>C++ Programming</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>50</td>
<td>50</td>
<td>CO871</td>
</tr>
<tr>
<td>CO890</td>
<td>Concurrency and Parallelism</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>40</td>
<td>60</td>
<td>CO871</td>
</tr>
<tr>
<td>CO892</td>
<td>Advanced Network Security</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>25</td>
<td>75</td>
<td>CO871 (or CO881 and CO882), CO874</td>
</tr>
<tr>
<td>CO894</td>
<td>Development Frameworks</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>50</td>
<td>50</td>
<td>CO871 as co-requisite</td>
</tr>
<tr>
<td>CO899</td>
<td>System Security</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>50</td>
<td>50</td>
<td>CO876, CO874</td>
</tr>
<tr>
<td>CO9**</td>
<td>Industrial Placement</td>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Notes

1. CO881 is assessed on a Pass/Fail basis and cannot be compensated or condoned.
2. Credit by compensation or condonement will not be awarded for modules CO880 or CO843.
3. Credit by compensation or condonement will not be awarded on CO871 or CO881 for IT Consultancy, or on CO845 for Computing and Entrepreneurship.
4. Preparatory work starts on CO880 starts in the Spring Term. Work continues full-time on the project during the Summer Term after examinations have finished and continues until the end of the programme.
5. CO843 runs throughout the programme. In the event of failure, no alternative assessment will be available. Credit can only be retrieved by repeating the module.
6. CO845 is delivered on an intensive basis during the project weeks in the Autumn and Spring Terms.
7. CO871 cannot be taken together with either CO881 or CO882.
8. Module CO890 cannot be taken with module CO545 Functional and Concurrent Programming.
9. CO885 Project Research and CO880 Project and Dissertation are closely linked and the topic/area chosen must be relevant to the particular degree programme.
10. For CO871 A good working knowledge of imperative programming and of the fundamentals of structured software development is assumed as well as some practical experience of programming and familiarity with a text editor and the compilation process.
11. CO837 has no formal pre-requisites but students are expected to have an honours degree in a computing, scientific, engineering, mathematical or other numerate discipline.
12. Module CO834 has a 30% coursework component which includes a compulsory report.
13. Module CO846 has no formal pre-requisites but requires prior knowledge of networks, security, and computer operating systems equivalent to an undergraduate degree in Computer Science or a closely related subject.
14. Module CO839 has no formal pre-requisites but requires prior knowledge of computer architecture and C/C++/Java equivalent to an undergraduate degree in Computer Science or a closely related subject.
15. Assessment is entirely by coursework on a pass/fail basis. There are two components, both of which must be satisfactory for the module to be passed
   - Portfolio and logbook
   - Performance evaluation by Industrial Supervisor

There are five Industrial Placement modules.

CO902 Industrial Placement Report
CO915 Industrial Placement Experience (3 month placement)
CO916 Industrial Placement Experience (6 month placement)
CO917 Industrial Placement Experience (9 month placement)
CO918 Industrial Placement Experience (12 month placement)

Module CO887 is pre-requisite, or equivalent knowledge of Java programming and network technology to the level of an undergraduate degree in Computer Science or a closely related subject.

Modules CO874 and CO876 assume a general background knowledge of computer technology which could have been attained from academic study or professional practice. Students without a technical background may struggle with these modules.
### 3.12 Computing Modules: level 4 5 6 modules, credits, terms weightings and pre-requisites

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Title</th>
<th>Level</th>
<th>Credits</th>
<th>ECTS</th>
<th>Term (see Note 1)</th>
<th>Module Weightings</th>
<th>Pre-requisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO528</td>
<td>Introduction to Intelligent Systems</td>
<td>5</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO532</td>
<td>Database Systems</td>
<td>5</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO545</td>
<td>Functional and Concurrent Programming</td>
<td>5</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO641</td>
<td>Computer Graphics and Animation</td>
<td>6</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO645</td>
<td>IT Consultancy Practice</td>
<td>6</td>
<td>15</td>
<td>7.5</td>
<td>Spring</td>
<td>100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

1. “A” indicates that a module is delivered in the Autumn Term and “S” indicates the Spring Term.
2. Module CO641 requires A-Level Mathematics or equivalent appropriate knowledge
3. In the event of failure of any of CO645, no alternative assessment will be available. Credit can only be retrieved by repeating the module.
4. The maximum number to be admitted to CO645 will be determined each year by the Kent IT Consultancy (KITC) management according to the commercial prospects at the time. Acceptance onto this module is subject to interview.
5. Module CO545 cannot be taken with module CO890 Concurrency and Parallelism.
## 3.13 Modules delivered by other Schools

<table>
<thead>
<tr>
<th>Module Code</th>
<th>Title</th>
<th>Level</th>
<th>Credits</th>
<th>ECTS</th>
<th>Term</th>
<th>Module Weightings</th>
<th>Module Code</th>
<th>Title</th>
<th>Level</th>
<th>Credits</th>
<th>ECTS</th>
<th>Term</th>
<th>Module Weightings</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB9067</td>
<td>Digital Marketing</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>100</td>
<td>CB904</td>
<td>Structure and Organisation of the E-Commerce enterprise</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>100</td>
</tr>
<tr>
<td>CB904</td>
<td>Structure and Organisation of the E-Commerce enterprise</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>100</td>
<td>CB932</td>
<td>Management of Operations</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
</tr>
<tr>
<td>CB932</td>
<td>Management of Operations</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
<td>CB934</td>
<td>Strategy</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>40 60</td>
</tr>
<tr>
<td>CB934</td>
<td>Strategy</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>S</td>
<td>40 60</td>
<td>CB937</td>
<td>Financial and Management Accounting</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
</tr>
<tr>
<td>CB937</td>
<td>Financial and Management Accounting</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
<td>EL844</td>
<td>Image Analysis with Security Applications</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
</tr>
<tr>
<td>EL844</td>
<td>Image Analysis with Security Applications</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>100</td>
<td>EL857</td>
<td>Biometric Technologies</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>35 65</td>
</tr>
<tr>
<td>EL857</td>
<td>Biometric Technologies</td>
<td>7</td>
<td>15</td>
<td>7.5</td>
<td>A</td>
<td>35 65</td>
<td>LZ600</td>
<td>English for Academic Study</td>
<td>6</td>
<td>15</td>
<td>7.5</td>
<td>A&amp;S</td>
<td>100</td>
</tr>
</tbody>
</table>
3.14 Transfer between programmes

Programme changes are subject to approval by the Programme Director. In considering requests to transfer, the Programme Director will consider whether the programme learning outcomes of the new programme can be met in the remaining registration. It is advisable, therefore, to submit any request for transfer at the earliest opportunity. Where a transfer extends the period of registration, students should ensure that any sponsor is prepared to cover the additional tuition fee and overseas students who are studying under a visa should ensure that their visa will cover the full registration period.

3.15 Degrees with an Industrial Placement

Each of the MSc programmes can optionally be combined with an industrial placement. Programmes with an industrial placement are only available on a full-time basis. The duration and starting date depend on the employer.

Placements normally commence after the major project has been completed (September) and may vary in length from 8 to 50 weeks, extending the standard MSc programme to between 14 and 24 months. The start date and duration depend on the employer. Placements are generally undertaken in the UK but overseas placements may sometimes be offered.

For the purpose of the credit framework the taught component, project and work placement constitute a single stage. However, commencement of the placement is conditional on satisfactory progress in the taught component, as determined at the interim examination board in June. A student with resits amounting to more than 30 credits will normally be required to retrieve the credit before beginning a placement.

The Industrial Placement Co-ordinators (email csplacements@kent.ac.uk) will support you in finding a suitable placement but the search effort is primarily down to you. To help with this there will be employer presentations and specific skills talks.

The University does not guarantee every student will find a placement. Students who have not secured a placement by 31 July 2018 will be transferred to the corresponding MSc programme without a placement. Reduced tuition fees are payable for the placement period and students should ensure that their sponsor is aware of this.

A placement is a formal part of the degree. It consists of two modules: CO915/916/917/918 Industrial Placement Experience, and CO902 Industrial Placement Report. There are four versions of the Experience module to cover placements of different length (see table below). The Experience module is assessed on a Pass/Fail basis only whilst the Report module is graded on a percentage scale.

Modules CO915/916/917/918 cannot be compensated, condoned or repeated. Module CO902 Industrial Placement Report cannot be compensated or condoned. The Board of Examiners may permit resubmission of an Industrial Placement Report if the failure was due to shortcomings in the report itself rather than in the work undertaken during the placement. To be eligible for the award of an MSc with an Industrial Placement, students must meet the requirements for the award of the MSc without a placement and pass both of the placement modules. Any student who fails either of the placement modules (with the above exception regarding CO902) will be transferred to the corresponding MSc programme without an Industrial Placement.

Modules associated with placement programmes are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Duration (weeks)</th>
<th>Level</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO902</td>
<td>Industrial Placement Report</td>
<td></td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO915</td>
<td>Industrial Placement Experience (3 months)</td>
<td>8-13</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>CO916</td>
<td>Industrial Placement Experience (6 months)</td>
<td>14-26</td>
<td>7</td>
<td>45</td>
</tr>
<tr>
<td>CO917</td>
<td>Industrial Placement Experience (9 months)</td>
<td>27-39</td>
<td>7</td>
<td>75</td>
</tr>
<tr>
<td>CO918</td>
<td>Industrial Placement Experience (12 months)</td>
<td>40-50</td>
<td>7</td>
<td>105</td>
</tr>
</tbody>
</table>
4 Projects

4.1 CO880 and CO885

The project is a piece of independent study substantial in nature. Projects are undertaken at the Canterbury Campus and all students are allocated a project supervisor who will be a member of academic staff.

You will be required to choose and register for your project early in the Spring Term. Projects are normally selected from a list of suggestions proposed by the department, a number of which may involve industrial collaboration. Alternatively, students may propose a project of their own if a suitable member of academic staff is available to act as the supervisor. In all cases the particular project must be appropriate for, and relevant to, the student’s programme of study. Projects may be done individually, or in groups of at most 5 members.

Preparatory research for your project begins during the Spring Term as part of module CO885 Project Research. The project then resumes as module CO880 Project and Dissertation in the Summer Term after examinations have finished and continues until the end of the programme. During the project period you will be entitled to an average of one hour per week of your supervisor’s time. Progress will be monitored and you must ensure that you maintain regular contact with your supervisor. Preparatory research (CO885) is assessed via a number of reports and a presentation. The remainder (CO880) is assessed by means of the project itself and a written dissertation.

Further guidance on deadlines, choice, content, format of the dissertation and marking criteria will be issued during the Autumn Term via the CO880 Moodle web page. Failure to select and register for a project can result in academic disciplinary proceedings.

Progress will be monitored during the course of this module and failure to attend project meetings or to fulfill other requirements of this module can also result in academic disciplinary proceedings.

4.2 CO843 Extended IT Consultancy Project

Students taking this module will undertake three or (typically) more assignments for the Kent IT Consultancy (KITC). Each assignment will be of one of four types:

- Work on one of KITC’s contracts with an external client. Every student will participate in at least one assignment of this type, normally more. Every student will normally, and to the extent that client-funded work allows, take the lead in at least one project of this type through a substantial portion of its lifecycle. For each assignment, the student may work on the assignment individually or as part of a group, as directed by KITC.

- A contribution to the infrastructure of KITC itself. These assignments work in a similar way to external assignments, but with KITC as the client.

- Formulating a costed proposal for the future development of KITC, and presenting reasoned argument in support of the proposal to KITC management. Every student will have at least one assignment of this type.

- Formulation and development within KITC of a product or service to be offered for future sale.

Alongside the client deliverables, each student will also be required to produce a report on each assignment undertaken. In these reports students will be required critically to evaluate technical, commercial and quality aspects of their work on the assignment and the contribution of the assignment to the development of the student’s skills. KITC management will also produce a brief evaluation report on the student’s contribution following each assignment: these evaluation reports will be made available to the student concerned and his/her academic supervisor. Towards the end of the project each student will prepare a final report. Each student is also expected to make a presentation of about 15 minutes on an idea for the strategic development of the Consultancy.

The module is assessed on the basis of the portfolio of per-assignment reports written by the students, the corresponding evaluation reports by KITC Management, the strategic development presentation, the final report, and by a viva voce examination.

Progress will be monitored during the course of this module and failure to attend project meetings or to fulfill other requirements of this module can result in academic disciplinary proceedings.
Further guidance on deadlines, content, format of the deliverables and marking criteria will be issued via the CO843 module web page.

5 Attendance and Coursework

5.1 Timetables

Lecture and class information is available via the Student Data System. Lectures and classes are normally timetabled between the hours of 09:00 and 18:00 on Mondays, Tuesdays, Thursdays and Fridays, and between 09:00 and 13:00 on Wednesdays. However, there may be occasions when it will be necessary for teaching to take place on Wednesday afternoons, or from 18:00–19:00 on Mondays, Tuesdays, Thursdays or Fridays. Teaching begins at 5 minutes past the hour and ends at 5 minutes to the hour. No smoking, eating or drinking is allowed in any teaching room. Teaching Timetables for termly delivered programmes will be available by the start of the Autumn and Spring terms. Queries on the timetable should, in the first instance, be addressed to the Student Administration Office.

5.2 Attendance

Attendance at supervisions, project meetings, seminar, terminal, laboratory and other practical classes is compulsory under the general regulations for students. Attendance at compulsory classes is monitored and recorded on the Student Data System. During the project period supervisors will monitor student progress and failure to attend project meetings could result in academic discipline procedures. Students are also required to pursue diligently the programme of study selected from the list of modules as laid down in this handbook. This includes appropriate lecture modules and attendance at lectures may be monitored. In some cases, assessments will be carried out during class time, and the marks obtained here may be used as part of the coursework mark for the relevant module. Students should note that examination questions may relate to material covered in lectures but not necessarily covered in notes handed out or displayed on the Web. Do not assume the existence of a question on a particular topic in an earlier year’s paper means a similar question will or will not appear again this year. Consult the lecturer if in doubt about what is examinable.

Attendance at Computing lectures will be monitored in order to enable the department to remind students of the importance of attending lectures in support of their learning. Tutors and directors of study will be informed of absences in order to identify where there may be cause for concern in the case of repeated or prolonged absence, for instance, unreported illness. Departmental followup as a result of repeated absence will primarily be with the intention of promoting and recovering student progress, however, repeated absence may be taken as a possible indicator of lack of appropriate diligence when considering disciplinary processes.

IT Consultancy students are expected to carry out a minimum of 120 hours of work in the KITC during the Spring Term, and a minimum of 360 hours of work in the KITC from the start of the Summer Term until the end of August. These hours of work will be scheduled on a regular weekly basis taking into account other timetable commitments; however from the start of the Summer Term until the end of examinations KITC duties will not exceed 5 hours per week. Any leave of absence from KITC duties must be agreed well in advance with the KITC coordinators.

5.3 Submission of Coursework

All coursework is compulsory and students are required to submit all work set by the deadline prescribed.

Module Convenors will determine the deadlines for submission of coursework, extended essays and dissertations, and will inform you of these via the Student Data System. Please note that late submission of coursework which is not subject to any concessionary plea will be awarded a mark of zero. Further details at: http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfoannex9.html

If you are unable to submit required coursework because of illness or other reasonable cause, you must report the reason without delay to your tutor and the person who set the assessment.
For computing modules it is up to the person who set the assessment, in consultation with your tutor, to decide whether or not to grant an extension. An extension, once granted, cannot be further extended for the same reason that it was originally granted.

**Student progress is regularly monitored and failure to fulfil these obligations could, in extreme cases, result in you being required to withdraw from the university (see Paragraph 7.2 of the Regulations for Taught Programmes of Study).**

The progress of students in the Faculty is formally monitored. Leaders of compulsory classes and module convenors are expected to draw to the attention of the Director of Studies the situation of students who have academic problems. In the first instance a seminar leader/module convenor will inform the Director of Studies when a student is not attending compulsory classes or is performing inadequately, he/she will check if this is the situation on other modules and may subsequently discuss the problem with the student. It will be made clear to students that attendance at compulsory classes is compulsory and that future absences will be reported to the Director of Studies, who may give advice to the student on academic problems and/or may refer the student to the Student Learning Advisory service in the Unit for the Enhancement of Learning and Teaching, the English Language Unit or other sources of advice or support on academic matters. If the non-attendance or academic problem persists the student will again be informed. The Director of Studies are authorised to use their discretion as to what action is to be taken concerning a reported student after consultation with the Head of Department(s), if appropriate. It may be decided that a student should receive a formal letter of warning indicating the requirements with respect to their pursuit of further study, failure to comply with which may lead to their being required to withdraw from the University.

Full details of the University's academic discipline procedures are contained in the University's Regulations, available on the web at [http://www.kent.ac.uk/teaching/qa/regulations/index.html](http://www.kent.ac.uk/teaching/qa/regulations/index.html)

### 5.4 Project Weeks

One week of each of the two teaching terms will be designated as a Project Week: Weeks 6 (Autumn) and 21 (Spring). The Autumn Project Week will be used by the Programming modules (CO881/CO871). MSc Computer Science students participate in an intensive project during the Spring Term Project Week as part of module CO886 Software Engineering. Module CO845 New Enterprise Development is delivered in the form of intensive workshops during the Project Weeks in both terms. Lectures and classes for other computing (CO) modules will be suspended. However, modules delivered by Kent Business School and the School of Engineering and Digital Arts will run as usual, and the Kent IT Consultancy continues to operate.

Further information on the arrangements and activities for Project Weeks will be made available at: [http://www.cs.kent.ac.uk/students/project-week.html](http://www.cs.kent.ac.uk/students/project-week.html)

### 5.5 Communication

You are responsible for collecting University communications via your internal mail and e-mail – it is your responsibility to check these sources regularly. Many modules have dedicated forums on the Moodle web page.

All students are provided with a free Office 365 (Outlook) webmail account. Documentation and FAQs are available at: [http://www.kent.ac.uk/itservices/email/](http://www.kent.ac.uk/itservices/email/) An SMS text alert subscription service is available to students via the Student Data System. Students can subscribe, free of charge, via their student data account. The system allows the School to email text alerts (for example change of lecture venues at short notice) to students who have subscribed. Students who do not subscribe will receive an equivalent email message via their Kent account.

### 6 Student Support

#### 6.1 Student Guide

The Student Guide at [http://www.kent.ac.uk/student/index.html](http://www.kent.ac.uk/student/index.html) has links to University services to help you get the most out of your student experience at Kent.
6.2 Where To Go For Help

Questions about particular modules are often best addressed to the lecturer concerned, or to the module convener. Staff email addresses and office locations can be found at https://www.cs.kent.ac.uk/people/index.html

Students experiencing problems of a non-academic or more general nature should consult their personal tutor. Tutors are allocated at the start of the course. See “Academic Advisers” section 6.7 below for further information.

Queries about the projects and dissertation stage should be referred to the Projects Conveners (see Moodle for details).

The Student Administration Office can assist you with matters of an administrative nature relating to your registration. It is located in Room S115B in the School of Computing. See Section 6.8: Administrative Support for further information.

Wider issues or problems that are difficult to raise via the above channels may be discussed with the Programme Director: Dr Peter Kenny (email: P.G.Kenny@kent.ac.uk)

6.3 Academic Support

The School of Computing provides a variety of support mechanisms for students on academic programmes. This statement is concerned with academic support mechanisms; pastoral tutorial support is explained in Section 6.7.

1. Students are encouraged to ask questions by e-mail, and lecturers will in turn reply to these in a reasonable time. Lecturers should make clear to students if they are going to be unable to respond to e-mail because of absence from the university, and should explain how alternative support is to be given.

2. Questions and answers to e-mail enquiries will, when appropriate, be broadcast to all appropriate students, either via group email or via module web pages.

3. Students are also advised that the appropriate forums can be used to obtain rapid support from peers and other year groups. In some cases, staff members may use nominated forums to solicit questions and broadcast answers relating to a particular module.

4. Alternatively, and where appropriate, students will be given the facility to ask questions anonymously. Questions and responses will be made available to the whole of the student group via the module web pages on Moodle.

5. Staff aim, where appropriate, to be available for face-to-face meetings with students seeking academic assistance. In order to make this work most effectively, it is helpful for students to make the first contact via e-mail to ask for a meeting time, thus avoiding a wasted trip to the staff member's office.

Staff should arrange such a meeting with the student, or where appropriate with a group of students seeking similar help, within a reasonable period of time. A meeting with a group will be provided in a timetabled slot for extra provision, thus ensuring that all eligible students can attend the session.

6. Students are expected to read e-mail and nominated forums daily, and also regularly to check module Web pages. Students are also expected to read nominated forums and/or anonymous course question pages for assistance before contacting staff members.

7. The arrangements above apply to term time support. Outside term time, more limited support will be available, but students should be aware that staff may be absent from the university on university business or on leave.

8. The School will try to ensure that its Web pages and forums are available to students trying to access the material from off campus.

9. Student grievances about the implementation of these procedures should be discussed with the student’s tutor or the Senior Tutor, Janet Carter.
6.4 Moodle

Moodle is Kent’s Virtual Learning Environment. It will give you access to teaching materials and other information associated with the modules for which you are registered. Further information will be provided by teaching staff at the start of a module. To access Moodle go to http://moodle.kent.ac.uk and log-in as prompted.

6.5 Staff/Student Liaison

Providing outstanding student representation is integral to Kent Union’s existence. There is student representation at all levels of University life. Every student will have a course representative who is elected to listen to the views of course mates and discuss them with staff at Department consultative meetings. There are elected student representatives who sit on Faculty and University wide committees as well as full time Sabbatical Officers who represent students’ needs on issues such as academic, welfare and social matters at University, local and national level. All representatives are elected in elections which take place in October so YOU can decide who represents your needs! For more information on student representation and how to get involved visit http://www.kentunion.co.uk/representation/

Your views on your courses are important to us. By working together we help to improve the quality of learning and teaching to the benefit of all, staff and students. If you have any concerns or have suggestions for improvement to offer, don’t keep them to yourself, but let us know as soon as possible. Even if you feel that any change will be too late for you to benefit, cohorts in future years will be grateful to you. There are several ways you can give feedback and these are explained at: http://www.cs.kent.ac.uk/students/feedback-and-communication.html

Students elect representatives annually to represent the views of the year group on each programme of study. These students sit on the School Staff-Student Liaison Committee and on the Board of Studies, and representatives are chosen to sit on the School Postgraduate Board of Studies (Taught) and the Faculty Learning and Teaching Committees and Faculty Board.

Matters raised by students are dealt with informally as they arise or they may be raised at the Staff-Student Liaison Committee. The Committee which has responsibility for staff-student liaison over all taught programmes in the department (both undergraduate and postgraduate) provides a constructive interface between the School and students aimed at improving:

a. the delivery of programmes and courses;
b. the quality of student feedback;
c. action times on dealing with problems such as access to facilities, delays in marking, overload problem, etc.

6.6 Student Activities Centre

The Activities Centre aims to provide opportunities for students to develop skills outside of their academic programme, and to try new activities. For example, they offer the Kent Student Certificate in Volunteering which is a scheme that recognises the hours you put in as a volunteer for which you receive a certificate that can be added to your CV. There is also the STAND OUT scheme which offers professional training sessions on different skills such as public speaking or event planning. There are over 100 different societies on offer at Kent and over 40 sports teams so you are sure to find something that matches your interest. You can look them up on the at http://www.kentunion.co.uk/

6.7 Academic Advisers : Personal Academic Support System

Each student is assigned a personal Academic Adviser for the full duration of their programme of study. A student can expect the primary emphasis of their Adviser’s role to be the provision of personal support – both academic and pastoral.

Your Academic Adviser will receive reports on your attendance and progress from class and project supervisors, and individual meetings to review progress and for other supervisory purposes will be held at key stages each year. In all cases a record is kept. Students experiencing problems with their studies are encouraged to meet with their tutor more frequently.
Your Academic Adviser is the person to whom you should go first for help with any problems that you meet. You should feel free to seek his or her advice and help whenever you think you are faced with a problem, whether academic or personal, that is affecting your life at Kent.

In addition the University provides professional support to meet a diversity of needs (see Section 10).

6.8 Administrative Support

6.8.1 Student Administration Office

The Student Administration Office can assist you with matters of an administrative nature relating to your registration. The office is located in Room S115B in the School of Computing and the office personnel are as follows:

Student Experience Manager: Dan Clark
Assistants: Lucy Ashbey, Meher Basit, Clare Campbell, Ben Conway, Sonny Dearden, Helen Godding, Rosemary Higham, Deborah Sillifant
Email: computing@kent.ac.uk
Web site: http://www.cs.kent.ac.uk/cas/
Opening hours: Monday - Friday 10:00 – 12:30, 14:00 – 16:00

Functions of the office include:

- maintaining the computerised Student Data System,
- supervising the handing in, distribution and return of most coursework as well as processing the associated marks,
- co-ordination of the teaching timetable,
- registration for modules,
- production of non-standard student status letters,
- correspondence with sponsors,
- project registration.

6.8.2 Student Data System

The University has an on-line Student Data System. The system is accessible by students from the Student Guide:

http://www.kent.ac.uk/student/

It gives you on-line access to the following information:

- Your lecture and class timetable;
- Coursework Details: includes assessment deadlines, weightings and other related information;
- Your marks: you will be able to view your coursework marks as they are entered into the system throughout the year. Examination marks will be available at the end of the academic year once they have been confirmed by Boards of Examiners;
- The modules for which you are registered;
- The records of your attendance at compulsory classes;
- Your examination results;
- Subscription to the University SMS text alert service (see below).

The system also allows you to view and notify changes to your personal details as held by the University and has a number of facilities to enable you to register on-line:

- Confirmation of examinations and assessment in the Spring Term
- Study skills workshops
6.8.3 The Registry
There are some matters that are not dealt with in the School and for these students need to visit the relevant Registry department. These include:

- Name changes (Registry Student Reception)
- Fee payments and queries (Income Office, Registry)
- Immigration Office Application for Extension of Stay (Registry Student Reception)
- US Exchange students need to register their module choices with the International office (International Office, Registry)

Some matters are dealt with by Registry departments, but administered online. For example, Council Tax Exemption Certificates.

6.8.4 School and Faculty Officers

<table>
<thead>
<tr>
<th>Title</th>
<th>Name</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head of School</td>
<td>Professor Richard Jones</td>
<td><a href="mailto:R.E.Jones@kent.ac.uk">R.E.Jones@kent.ac.uk</a></td>
</tr>
<tr>
<td>Director of Graduate Studies (Taught)</td>
<td>Dr Peter Kenny</td>
<td><a href="mailto:P.G.Kenny@kent.ac.uk">P.G.Kenny@kent.ac.uk</a></td>
</tr>
<tr>
<td>Senior Tutor</td>
<td>Janet Carter</td>
<td><a href="mailto:J.E.Carter@kent.ac.uk">J.E.Carter@kent.ac.uk</a></td>
</tr>
<tr>
<td>Industrial Placement Officers</td>
<td>Sian Robson/Katie Van Sanden</td>
<td><a href="mailto:csplacements@kent.ac.uk">csplacements@kent.ac.uk</a></td>
</tr>
<tr>
<td>Dean of the Faculty</td>
<td>Professor Mark Burchell</td>
<td><a href="mailto:M.J.Burchell@kent.ac.uk">M.J.Burchell@kent.ac.uk</a></td>
</tr>
</tbody>
</table>

6.9 IT Services and Support
The first-class IT facilities available on campus are supported by an online, telephone and in-person helpdesk to provide user support and help to get started. Over a thousand student PCs, located in college PC rooms and in the Templeman Library, offer a range of general and academic software and high-speed internet* access. *Internet access has some security restrictions

Find a PC on campus: [http://www.kent.ac.uk/is/study/](http://www.kent.ac.uk/is/study/)

6.9.1 Your IT account
To access services, you first need to claim your IT account to retrieve your username and password. Claim your IT account online at: [www.kent.ac.uk/gettingstarted/it.html](http://www.kent.ac.uk/gettingstarted/it.html)

6.9.2 Connect your computer
Your own PC can gain access to your files on the Kent network, and print to campus printers; simply connect to the Kent network using one of these services:

- wireless access: [www.kent.ac.uk/wireless](http://www.kent.ac.uk/wireless)
- the study bedroom service (to connect from campus bedrooms): [www.kent.ac.uk/itservices/sbs](http://www.kent.ac.uk/itservices/sbs)

6.9.3 Loan a laptop
The Templeman Library, which is fully wireless-enabled, allows you to borrow a laptop to use within the Library.

6.9.4 Living off campus?
You can connect to the Kent network via your home broadband service. Details of how to set up your connection are online: [www.kent.ac.uk/itservices/home](http://www.kent.ac.uk/itservices/home)

6.9.5 Email
Check your University email account regularly to ensure you do not miss important announcements: [www.kent.ac.uk/itservices/email](http://www.kent.ac.uk/itservices/email)

6.9.6 Improve your IT skills
Training opportunities are available to help you make the most of IT facilities to conduct research, write essays and produce academic papers. As a Kent student, you can access online learning materials, sign up for free workshops or choose to take a recognised IT qualification. For more information, visit [www.kent.ac.uk/student/skills](http://www.kent.ac.uk/student/skills)
6.9.7  More details
For details of all IT services or to contact the Helpdesk, visit www.kent.ac.uk/itservices.

6.10 The Templeman Library
The Library, at the heart of the Canterbury campus, provides essential resources to support you throughout your studies. The building itself holds over a million items including books, journals, DVDs and other multimedia resources. It offers a variety of study and IT facilities: group and silent study areas, presentation practice rooms, networked PCs, as well as wireless access, laptop loans, and a café.

A vast range of resources is available online, including full-text journals and newspapers, reference material, databases and bibliographies; you can access these from wherever you are with your Kent username and password.

The Library houses two archives of rare and unique material: the British Cartoon Archive, and Special Collections, with significant holdings in Victorian and Edwardian theatre, the history of science, local history, and early printed books.

The Library also provides a training and support network to help you make the most of its resources, including a Help & Enquiry desk service. Academic liaison librarians, who are your subject specialists, deliver one-to-one and group training and produce online subject guides which highlight the resources that are likely to be most useful for your studies. www.kent.ac.uk/library

6.11 Personal Development Planning (PDP)
At University you should become an independent learner. Personal Development Planning helps students to take charge of their learning, recognize their strengths and weaknesses and plan for their short term and long term future. PDPs are an important tool used in industry for people to manage their career advancement, both in terms of providing evidence for people applying for promotion and for identifying future training and development requirements and getting realistic time frames and budgets agreed by employers. Experience of this at university will enable you fully to embrace development opportunities and to think broadly about where you can get relevant learning and support throughout your careers.

An advantage of an up-to-date PDP is that it will provide evidence of all the core competencies employers now base their recruitment on, enabling you to recognise that your technical degree also gives you wider skills such as teamwork, analytical and problem solving, planning and organisation, etc. The ability to learn new skills quickly is one of the basic reasons that employers target graduates, further technical skills are easily trainable if this foundation is in evidence. This is easily shown if you have an up-to-date PDP when applying for jobs, as well as providing your tutor with more detailed information on which to base any references you may require.

Personal Development Planning is available to every University student in the UK. At Kent it is a student-led activity supported by the School. Recording of PDP may take place in an e-portfolio. For more information see the PDP website at: http://www.kent.ac.uk/learning/PDP-and-employability/pdp/index.html

7  Assessment and Examinations

7.1 Credit Framework for Taught Programmes
The Credit Framework for Taught Programmes applies to all programmes of study taught at and by the University of Kent and leading to award of the University. It sets out the requirements for all taught programmes of study, in order to ensure that successful students will be eligible for an award of the University of Kent.

A full description of the requirements of the Credit Framework together with Annexes each covering a particular aspect, is available at http://www.kent.ac.uk/teaching/qa/credit-framework/index.html

7.2 Coursework
There are two types of coursework: graded and ungraded.
Graded coursework is given a numerical mark. Each such assessment has a weighting associated with it and this mark is used directly towards the calculation of the module mark.

Ungraded coursework is given a result of ‘pass’ or ‘fail’. These pieces of ungraded coursework are weighted as 0 when calculating the module mark, however they are deemed to be “prescribed elements of assessment” of the module and candidates will need to complete each such assessment in that module to the satisfaction of the examiners in order to be eligible to pass the module. (In some syllabuses these ungraded assignments are denoted as being “assessed by tick”.)

Examiners may ask to see your coursework during the Summer Term and you should, therefore, keep your work until the end of your course. Students who are required to submit their work will be notified by the Chair of the Board of Examiners concerned during the Summer term.

7.3 Examination and Assessment Check

All students, including those who will not be taking any examination, are required to confirm that they have been correctly registered for modules, examinations and assessments. You will be prompted to do this at the start of the Spring term.

If you do not check your registration and assessment details, you are at risk of finding that you are taking two examinations at the same time, or that you are being assessed on the incorrect module.

If you have good cause to request special arrangements to be made for your examinations, these must be put in place by an Inclusive Learning Plan. Such plans are developed by advisers with the University Student Support and Wellbeing team. See https://www.kent.ac.uk/studentsupport/

7.4 Examination Timetable

Examinations take place at the start of the Summer Term. The examinations timetable is published during the Spring Term. A personal exams timetable will be available to you via the Student Data System. You may be required to sit examinations on a Saturday.

7.5 Examination Rubrics

Rubrics for examination papers are published on the School’s web pages by the end of the Spring Term. See: https://www.cs.kent.ac.uk/cas/InfoStudents/Examinations/

Past examination papers are also available at https://www.kent.ac.uk/library/online/exams/.

7.6 The Examination Room

It is important that all students are familiar with the examination instructions for candidates. These are available to view on the Examinations Office web page at:

http://www.kent.ac.uk/student-records/exams/index.html

You should particularly note that

- you must take your student ID card with you to all examinations as you will be asked to produce your card to get into the Hall and you will be required to display it on the desk throughout the exam.
- you may not take bags or unauthorised material into the Hall.
- you may not take food or drink into the Hall, except for documented medical reasons. Water will be available on request.
- Mobile phones, smartwatches and all other electronic devices are not permitted in any exam venue.

7.7 Cheating in the Examinations

Regulation 4(ii) of the General Regulations for Students states that ‘Except where allowed by the examination instructions, no candidate may introduce into the examination room any book, manuscript or other object or material relevant to the subject of the examination.’

THE UNIVERSITY REGARDS CHEATING OR ATTEMPTING TO CHEAT AS AN EXTREMELY SERIOUS OFFENCE. STUDENTS WHO ARE FOUND TO HAVE CHEATED MAY FAIL THE EXAMINATION OVERALL.
7.8 Calculators in Examinations
Candidates are required to possess a specific calculator of a standard type for use in examinations. Where required, you will be issued with a calculator of the approved model. Only the approved model calculator will be permitted in the examination hall.

7.9 Dictionaries in Examinations
The use of dictionaries in the examination room is prohibited. However, Departments will ensure that an appropriate member of staff is present for the first fifteen minutes of an examination to answer questions from students. Non-native speakers of English in particular should read question papers carefully and ask about the meaning of words with which they are not familiar during this time.

7.10 Concessionary Evidence
Boards of Examiners are able to consider evidence of illness or other problems when making recommendations for the award of degrees, but only when these are properly documented. This means, for instance, that you should ask for a letter from a medical practitioner to detail any illness. All such evidence is treated as confidential. You are strongly advised to keep your Academic Adviser informed throughout the year of any problems you may be experiencing.

Concessions officially recognise anything which has caused you exceptional difficulty in your studies (e.g. severe illness or bereavement) and are beyond the normal difficulties experienced in life. You may wish to discuss these issues with your Academic Advisor, module convenor or Senior Tutor before you submit an application via Faramir. http://faramir.kent.ac.uk

You are advised to refer to the full guidance in Annex 9 of the Credit Framework for Taught Programmes which explains the circumstances under which concessionary evidence will be considered and the procedures for submission:
http://www.kent.ac.uk/teaching/qa/credit-framework/creditinfoannex9.html

Concessions applications must be submitted normally no later than five days after the examination to which they relate, or normally before, but no later than the deadline date for the coursework assessment to which they relate.

7.11 Examinations
The means by which a module is assessed is indicated in the Tables in Sections 3.11-3.13 earlier in this handbook (e.g. 50% by coursework, 50% examination). The Credit Framework for Taught Programmes sets out the level you must achieve in order to be awarded credit, including arrangements for compensation, condonement, referral, deferral and trailing. Text in italics below indicates the relevant part of the Credit Framework.

To be awarded the number of credits prescribed for a module (ie 15, 30 or 60) you must achieve a mark of \( \geq 50\% \) for that module or in the case of CO881, achieve a Pass.

7.12 Project and Dissertation: CO880 and CO843
CO880 and CO843 are assessed by two internal examiners (one of whom is normally the supervisor) and the external examiner. The final mark is normally determined at the first Examiners’ Board meeting following submission of the dissertation. A candidate who fails and is referred in the dissertation element of a taught postgraduate programme may be permitted to resubmit the dissertation on one occasion only in a revised form by a deadline specified by the relevant Board of Examiners. Candidates so permitted may be required to undergo an oral examination on resubmission. Credit by compensation or condonement will not be awarded for CO880 or CO843.

CF Section 7.4.4
7.13 Progression
The standard and industrial placement variants of MSc programmes comprise one stage only and the requirements for award are set out in Section 7.14 below.

7.14 Award
The minimum requirements for award are as follows:

<table>
<thead>
<tr>
<th>Programme</th>
<th>Credits Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSc</td>
<td>180 credits (at least 150 of which must be at Level 7)</td>
</tr>
<tr>
<td>Postgraduate Diploma</td>
<td>120 credits (at least 90 of which must be at Level 7)</td>
</tr>
<tr>
<td>Postgraduate Certificate</td>
<td>60 credits (at least 40 of which must be at Level 7)</td>
</tr>
</tbody>
</table>

Notes:
(i) The required and optional modules for these programmes are set out in Section 3. Credits from other modules cannot be substituted for these.
(ii) Credit by compensation or condonement will not be awarded for CO843 Extended IT Consultancy Project, CO880 Project and Dissertation or any of the Industrial Placement modules CO902, CO915, CO916, CO917, CO918. In addition, the following programmes contain other modules for which credit will not be awarded by compensation or condonement:

- Computing and Entrepreneurship: CO845
- IT Consultancy: CO871, CO881

The award of credit by compensation or condonement is limited to 25% of the modules which contribute towards the taught and project components (45 out of 180 credits).
(iii) There is no admission to the Postgraduate Diploma, or Postgraduate Certificate. These qualifications are awarded as exit awards only following failure to achieve an MSc.

Additional constraints apply for exit awards and these are set out in Section 7.16 below.

CO902 and one of CO915, CO916, CO917 or CO918 are required for any exit award involving an Industrial Placement.

7.15 Classification
Awards are based on the average and preponderance methods of classification. The overall average mark is calculated applying the relevant module weighting.

**Average Method of Classification**
- *with Merit*: an average mark of 60 or above but less than 70.
- *with Distinction*: an average mark of 70 or above.

**Preponderance Method of Classification**
- *with Merit*: an average mark over all contributing modules of 57 or above and a mark of 60 or above for 50% or more of the credits obtained.
- *with Distinction*: an average mark over all contributing modules of 67 or above and a mark of 70 or above for 50% or more of the credits obtained.

In the event of a difference in the classification derived for a particular student, the higher of the two classifications will be awarded.

Failure
If you fail one or more modules the Board of Examiners will consider the following options:

- Condonement (subject to the pass criteria above) \(\text{CF Section 6.2}\)
- Compensation (subject to the pass criteria above) \(\text{CF Section 6.3}\)
- Referral \(\text{CF Section 7.4}\)
- Trailing and Retrieving Credit \(\text{CF Section 7.5}\)
- Application of the provisions referred to above \(\text{CF Section 6.5}\)
- Deferral \(\text{CF Section 7.6}\)
Where a student resits a module or modules, the marks obtained will be used as set out in the table below. Assessment on repeating a module or taking an alternative module following initial failure of a module will be treated as a resit unless it has been agreed, in a particular case, that the result of the earlier assessment should be set aside.

<table>
<thead>
<tr>
<th>Initial Result</th>
<th>Resit Result</th>
<th>Mark to be used for Award of Credit</th>
<th>Mark to be used for Classification/Transcript</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fail</td>
<td>Fail</td>
<td>Best Mark</td>
<td>Best Mark</td>
</tr>
<tr>
<td>Fail</td>
<td>Pass</td>
<td>Best Mark</td>
<td>Minimum Pass Mark</td>
</tr>
</tbody>
</table>

Resit examinations for taught modules are held in August.

Candidates registered for the degree of MSc who fail to qualify for an award will be considered for the award of a Postgraduate Diploma or a Postgraduate Certificate.

Candidates registered for the Postgraduate Diploma who fail to qualify for an award will be considered for the award of a Postgraduate Certificate.

The Postgraduate Diploma requires successful completion of 120 credits with at least 90 at level 7. This may comprise either the whole taught component or half the taught component plus the major project (except for IT Consultancy for which CO843 Extended IT Consultancy Project is mandatory).

The Postgraduate Certificate requires successful completion of 60 credits from the taught component with at least 40 at level 7.

Additional constraints apply for particular awards as listed below. The given subset of modules must be passed without compensation or condonement.

- **PDip/PCert Advanced Computer Science (Computational Intelligence)**
  At least 2 of: CO836 Cognitive Neural Networks, CO837 Natural Computation, CO884 Logic and Logic Programming, CO832 Data Mining and Knowledge Discovery.

- **PDip/PCert Advanced Software Development**

- **PDip/PCert Computer Security**

- **PDip/PCert Networks and Security**

- **PDip/PCert Computing and Entrepreneurship**
  CO845 (30 credits) is required.

- **PDip/PCert IT Consultancy**
  The project (CO843) is required. Students who fail the project but pass 60-120 credits in the taught component may be eligible for the award of a PDip/PCert in Computing and Entrepreneurship.

CO*** modules from any of the MSc programmes may contribute to a Postgraduate Certificate in Computer Science.

If a candidate has failed to qualify for an award on the programme for which they are registered, the examiners may discount selected modules taken and make a lesser award, so long as:

(a) the remaining modules satisfy the learning outcomes of the lesser award; and
(b) the candidate’s performance in the remaining modules in all other respects fulfils the regulations for the lesser award.

7.16 Publication of Results

Boards of Examiners will meet in June to consider results for the taught component of programmes. These results will be made available to students at that time and those required to attend resit examinations will normally do so in August of the same year.

The Board of Examiners will meet again in October to consider final year results. A transcript showing a breakdown of marks will be sent to candidates at their home address following the meeting of the Board. Results will also be available on-line via the Student Data System. Successful postgraduate students normally attend the Graduation Ceremony held in November following the release of results.

7.17 Appeals Procedures

Appeals procedures can be found in Annex 9 of the Credit Framework for Taught Programmes at:
http://www.kent.ac.uk/teaching/qa/credit-framework
Information regarding the examination appeals procedure is available at:
http://www.kent.ac.uk/fso/appeals/

8 Academic Integrity and Honesty at University

What is academic integrity?

While you are at university, you are expected and required to act honestly regarding the work you submit for assessment in your courses. General Regulation V.3: Academic Discipline states that: students are required to act with honesty and integrity in fulfilling requirements in relation to assessment of their academic progress.

General Regulation V.3 specifies that any attempts to:
- cheat
- plagiarise
- improperly influence your lecturer’s view of your grades
- copy other assignments (your own or somebody else’s) or
- falsify research data

will be viewed as a breach of this regulation.

The full details of this regulation including disciplinary procedures and penalties are available at in Annex 10 of the Credit Framework at: http://www.kent.ac.uk/teaching/qa/credit-framework

Most students do not have any problems understanding the rules and expectations about acting honestly at university, although some are not familiar with academic expectations and plagiarism.

What is plagiarism?

General Regulation V.3 states that plagiarism includes: reproducing in any work submitted for assessment or review (for example, examination answers, essays, project reports, dissertations or theses) any material derived from work authored by another without clearly acknowledging the source.

In addition, certain departments or subjects may define plagiarism more narrowly. This means that if you read, study or use any other work in your assignment, you must clearly show who wrote the original work. This is called referencing and correct referencing will help you to avoid accusations of plagiarism.

What is referencing?

Referencing means acknowledging the original author / source of the material in your text and your reference list. Examples of source material which should be referenced include:
- exact words (written or spoken)
- summarised or paraphrased text
- data
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- images (graph, tables, video, multimedia etc.)
- pictures or illustrations
- ideas or concepts
- theories
- opinion or analysis
- music or other performance media
- computer code
- designs, drawings or plans

A variety of referencing styles are in use at the University of Kent. Specific style guides can be accessed from your department, library or UELT website. Good referencing and avoiding plagiarism are pre-requisites to good writing.

Good referencing and avoiding plagiarism are pre-requisites to good writing. If you are unsure about essay writing in general or want to make sure that you will receive the good marks you deserve, you can visit the Student Learning Advisory Service based in the UELT building. For details see: http://www.kent.ac.uk/learning/index.html

Further information for students on Academic Integrity can be found at: http://www.kent.ac.uk/uilt/ai/index.html

School Guidance

The School has published a Frequently Asked Questions guide on Plagiarism and Collaboration and this is available at http://www.cs.kent.ac.uk/teaching/student/assessment/plagiarism.local

9 Complaints Procedure

9.1 Academic Complaints

As a student you are entitled to receive competent teaching on all modules you take. The questionnaire you fill in at the end of the module will enable your teachers to pick up suggestions for improvement, and in many cases you will be able to sort out any problems on the spot by talking them through with the teacher(s). However, it does occasionally happen that there are serious grounds for dissatisfaction which can be dealt with only by someone other than the teacher(s) concerned. If you, as an individual or as a group of students, feel that the basic requirements of good teaching are not being met, or that there are other issues to do with a module or its teacher(s) which you feel give grounds for complaint, you should raise the matter immediately.

You may want to talk first to your student representative, and ask him or her to convey the complaint to the Convenor, Director of Studies or the School Senior Tutor.

The Module Convenor is the person who will normally consider any complaint. You may, however, if you wish, take a complaint to the Head of your School. If you remain dissatisfied you may wish to make a formal complaint. The complaints procedure is set out at https://www.kent.ac.uk/teaching/qa/guidance/appeals.html

9.2 Non-academic Complaints

The procedures for complaints on non-academic matters are also covered in the procedures referred to above.

10 Other Information

10.1 Intermission

It is important that you seek help if you are experiencing problems with your studies.

If you seek a period of intermission you are strongly advised to check the financial consequences with your sponsors. It is very important that your sponsor is consulted.

Students take time out from their degree (known as intermitting) for a variety of reasons, mainly personal, but sometimes academic or financial. If you feel you need some time out, go and see your Departmental Senior Tutor or the University Counselling Service. Intermitting does not change the duration of your degree it just gives you the opportunity to take some time away from University should
you need to. The University does not encourage students to take longer than normal to complete their studies but is willing to discuss this with you. Whatever is decided you will need to speak to your funding body to ensure that any funding you receive is not affected by intermission.

Intermission is normally given for a complete academic year, or occasionally part of an academic year. Your Departmental Senior Tutor will ultimately be responsible for authorising your period of intermission. However, no intermission will be granted after the end of student examination/assessment confirmation, ie end of Week 15.

Possible reasons for leave to intermit are:

1. **Personal Grounds** - Family or personal reasons (other than illness) prevent you from continuing your studies
2. **Financial Grounds** - Where your financial situation prevents you from continuing your studies.
3. **Medical Grounds:**
   - (a) Absence from the University due to medical or emotional reasons, or other such extenuating circumstances.
   - (b) Illness or extenuating circumstances, which are having a negative impact on your studies.
   - (c) Illness or extenuating circumstances that have interrupted your studies

When the reason for intermitting is medical, medical evidence will be requested from you. Before you return from intermission, you will be required to provide another medical certificate to testify that you are fit to return to your studies.

**A few things to remember:**

- Intermittent does not change the number of terms you will spend at the University, or your examination results.
- Intermittent is intended to relieve you of a disadvantage, not put you at an advantage to other students.
- You must check funding issues / implications with your Funding Body / the University Finance Office.
- If you subsequently want to change the period for which you have been permitted to intermit, you must seek approval from your Departmental Senior Tutor.
- If you have to go out of residence quickly for medical reasons, make sure you are seen by a doctor at the time so they can give you a medical certificate that reflects the severity of your condition.
- Make sure that you complete a ‘Change of Circumstances Form’ for your LEA (if applicable) if you intermit.

If you wish to intermit you should discuss the matter with your tutor or departmental advisor in the first instance. Final permission will be granted by the Department Senior Tutor where there are good medical, financial or personal reasons, or where intermission can be shown to be in your academic interests.

Formal application to intermit should be made on the appropriate form which is available at:

http://www.cs.kent.ac.uk/students/assessment-and-examination.html

PLEASE NOTE THAT IF YOU HAVE NOT HAD PERMISSION TO INTERMIT, YOUR FEES WILL NOT BE ADJUSTED – AND YOU WILL BE CHARGED FULL FEES FOR ACCOMMODATION AND TUITION.

**10.2 Withdrawal**

If you wish to withdraw you should seek an interview with the Departmental Senior Tutor, to whom you must subsequently write confirming any decision to withdraw. Failure to follow these procedures will result in you being charged accommodation and tuition fees.

Formal application to withdraw should be made on the appropriate form which is available at:

http://www.cs.kent.ac.uk/students/assessment-and-examination.html
10.3 Computer Abuse

From time to time there are occurrences of what has become popularly known as ‘hacking’, i.e. attempting to interfere with the systems within the University or elsewhere or with other users’ files. This practice wastes the time of academic and Computing Service staff, and interferes with the freedom of use of computers by others. Students found guilty of this type of offence will be banned from using all computing facilities and will have their files destroyed, regardless of any needs for computing coursework. You are also reminded that you should NEVER divulge your password or allow anyone else to use your system identification number and computing resources.

Computer abuse includes any activity which

- seeks to gain unauthorised access to the resources of the systems or networks,
- disrupts the intended use of the systems or networks,
- wastes resources (people, computer materials, capacity) through such actions,
- destroys the integrity of computer-based information, or
- compromises the privacy of users.

Your attention is drawn to the Regulations for the use of Computing facilities, a copy of which would have been sent to you at the start of your registration. Further copies are available from the Course Administration Office. Further information may be found on the Computing Service Web pages:

http://www.kent.ac.uk/is/regulations

10.4 School Seminars

Students are very welcome to attend Computing Seminars which are held on Tuesday afternoons at 16:00. These usually feature visiting speakers from both academic and industrial institutions. Each Research Group in the School also has its own seminar programme.

Details of all seminars may be found at:
http://www.cs.kent.ac.uk/researchseminarcalendar.html?tag=computingseminar&view_by=upcoming

10.5 Student Learning Advisory Service

The Student Learning Advisory Service (SLAS) is part of the Unit for the Enhancement of Learning and Teaching. This is a free, friendly advice service providing guidance and information on all aspects of effective learning and study skills to ALL students (from all subject disciplines and subject levels) from the minute they arrive at the university until they finish their studies. The service provides academic advice and guidance for students interested in strengthening their study skills or who wish to discuss a specific study problem. This is provided in addition to the subject-based support available within Departments. The Service also works in close partnership with academic departments in many of its initiatives and collaborates with other constituencies of the university e.g. associate or partner colleagues. We offer the following:

Individual and confidential advice and study guidance

on topics such as time management, essay and report writing, effective reading and note-taking, revision and exam techniques, organisational skills and issues such as motivation and concentration.

Maths and Stats Support

In partnership with IMSAS, we provide mathematics support for our students. If you wish to obtain specific and individual support, we offer two services: Stats Helpdesk and Maths Helpdesk.

Additional help with writing:

We work in collaboration with two Royal Literary Fund Writing Fellows (RLF) at both Canterbury and Medway. They are there to help students with any aspect of their writing.

PROGRAMMES

Workshops: Each term, in partnership with the Library and Information services, we offer a series of generic workshops on study skills that students from all levels and departments can attend. Please check our website: http://www.kent.ac.uk/uelt/learning
**Additional exam support/ VALUE programme:** A programme for Stage 1 students who are concerned about transferring to Stage 2 of their studies.

**VALUE MaP:** A programme for mature and/or part-time students which is run as a series of Saturday workshops on effective study on the Canterbury, Medway and Tonbridge campuses

**LEARNING RESOURCES**

We have a range of leaflets and books on study skills and techniques. Please note that the Student Learning Advisory Service is a wheelchair accessible venue, and this applies to all events we run. If you have any queries about making full use of our resources and services, please contact us; we will be glad to help. Of the many books on study techniques that are available, you may wish to buy or borrow one or more of the following to help you off to a good start:

- **Cottrell, S. (2003)** *The Study Skills Handbook.* London: Palgrave (useful for all Students; mature studies and students with dyslexia will find this especially useful).

**Online resources:**

Online study skills guides

<table>
<thead>
<tr>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Canterbury</strong></td>
</tr>
<tr>
<td>Where:</td>
</tr>
<tr>
<td>UELT (between the banks and the Grimond Building)</td>
</tr>
<tr>
<td>Open:</td>
</tr>
<tr>
<td>Monday – Friday 9.00 am – 4.00 pm</td>
</tr>
<tr>
<td>Phone:</td>
</tr>
<tr>
<td>01634 888884</td>
</tr>
<tr>
<td>Email:</td>
</tr>
<tr>
<td><a href="mailto:learning@kent.ac.uk">learning@kent.ac.uk</a></td>
</tr>
<tr>
<td>Web site:</td>
</tr>
</tbody>
</table>

**10.6 Careers and Employability**

Nearly half of all the vacancies advertised through the Careers Service are open to graduates in any discipline, while even more careers may open up following a postgraduate vocational course. But, to discover what is available to you and what would suit your skills and interests, you must begin your career planning early. The Careers Advisory Service is more than just the place where students go to find a job after they graduate. It works with students throughout their time at University and offers a range of services which encompass all aspects of career development and planning and assists students to realise their potential. Students are encouraged to analyse their values, interests, skills and abilities, provide them with information about employment opportunities and further study, liaise with graduate employers and postgraduate study providers and work directly with students to help them make appropriate career decisions.

The Service can help you to get the most out of your time here and to plan your next step. Students who start their career planning early and get involved in University life have a head start in their future career, whatever that may be. It’s never too early!

Some of the Careers Advisory Service resources which you may find useful at this stage include:

**Online:**
**Postgraduate Taught Programmes**  

**2017/18**

- Main University of Kent Careers site  
  [www.kent.ac.uk/careers](http://www.kent.ac.uk/careers)
- Career Planning Action Plan  
  [www.kent.ac.uk/careers/timeline.htm](http://www.kent.ac.uk/careers/timeline.htm)
- "What Can I Do With My Degree In …?"  
  [www.kent.ac.uk/careers/degreein.htm](http://www.kent.ac.uk/careers/degreein.htm)
- Work Experience  
  [www.kent.ac.uk/careers/vacwork.htm](http://www.kent.ac.uk/careers/vacwork.htm)
- Choosing a Career  
  [www.kent.ac.uk/careers/Choosing/ChoosingCareer.htm](http://www.kent.ac.uk/careers/Choosing/ChoosingCareer.htm)
- “I Want To Work In …”  
  [www.kent.ac.uk/careers/workin.htm](http://www.kent.ac.uk/careers/workin.htm)
- Employability Skills  
  [www.kent.ac.uk/careers/sk/skillsmenu.htm](http://www.kent.ac.uk/careers/sk/skillsmenu.htm)

In the Careers and Employability Service (see [http://www.kent.ac.uk/ces/locations/index.html](http://www.kent.ac.uk/ces/locations/index.html) for locations and opening times)

- Career Planning Guide
- Career Management Skills and Choosing a Career workbooks
- Reference information on careers, graduate employers, work experience, applications and interviews and much more

You can drop in to the Careers Advisory Service at any time during office hours to use our information resources to research career options and employers or to see a careers adviser for any help that you need with career-related information or advice. As well as in-depth vocational guidance interviews we provide a “drop-in” service to help students with preliminary enquiries and quick queries. See [www.kent.ac.uk/careers/](http://www.kent.ac.uk/careers/) for more information

**Talks, Events and Employer Presentations** are organised throughout the year: see our careers calendar at [www.kent.ac.uk/careers/casevents.htm](http://www.kent.ac.uk/careers/casevents.htm)

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**10.7 Student Support and Wellbeing**

The service offers support to students with disabilities, specific learning difficulties and medical conditions during their time at the University and can assist with the following:

- Appointments to discuss learning support needs and help to arrange specialist assessments, if required;
- applying for funding to pay for specialist support (eg dyslexia tutors, mentors and note takers) and assistive technology (e.g. software programs, computer equipment);
- arranging support from specialist staff, according to individual needs;
- talking to your lecturers about particular help you may need in lectures and seminars
- planning any special arrangements you need for exams
- contacting other departments and schools about specific assistance you may require.
Students who require additional support must make contact with the service and complete the registration form.

Contact Details:

CANTERBURY CAMPUS:
Student Support and Wellbeing, Keynes College, University of Kent, Canterbury, Kent CT2 7NP (Via Keynes main entrance, Rooms Hg 7-9)
Open Monday to Friday: 9.00am – 5.00pm
Phone: 01227 823158
Email: accessibility@kent.ac.uk Fax: 01227 824450
Website: https://www.kent.ac.uk/studentsupport/index.html

10.8 Dignity at Study Policy
The University of Kent is committed to developing a working and learning environment in which all have the right to be treated – and the responsibility to treat others – with dignity, courtesy, respect and consideration.

We aim to develop a culture that
• Values diversity
• Fosters respect for everyone
• Does not tolerate prejudice
• Is free from harassment and bullying

Personal harassment and bullying in all its forms, is unacceptable, therefore staff and students should ensure that they are familiar with the University Policy Document:

Dignity at Study: Policy and Procedures
The University takes any form of bullying or harassment extremely seriously. In order to support students who may experience bullying or harassment, the University has a Dignity at Study Policy which outlines the University’s commitment, the procedures for making complaints and also sources of support. The Dignity at Study Policy can be found at http://www.kent.ac.uk/regulations/Regulations%20Booklet/dignity_at_study_policy_july2013.pdf

Equality and Diversity
The University is committed to the creation and support of a balanced, inclusive and diverse community which is open and accessible to all students, staff, visitors and members of the public. You can view the Equality and Diversity website at https://www.kent.ac.uk/hr-equalityanddiversity/

10.9 Counselling Service
The Counselling Service is an integral part of the Welfare Services offered on campus free of charge to part-time and full-time students. Counselling is valuable if you are feeling that your life, at work or at home, has become out of balance in some particular way. For example it may that you are experiencing the aftermath of a bereavement, difficulty in managing change, conflicts in relationships at work or at home, stress or burn out, difficulty with concentration, low self esteem or low self confidence, depression or anxiety, the after effects of childhood trauma or a recent crisis of some kind. It can really help to talk things over with a counsellor.

Contact in confidence:

UNIVERSITY COUNSELLING SERVICE, Keynes College
Tel. 01227 823206 or 01227 764000 ext. 3206
https://www.kent.ac.uk/studentwellbeing/contact/index.html
http://www.kent.ac.uk/counselling
10.10 Medical Centre

Attached to the University is a modern, well equipped Medical Centre that you are encouraged to register with as soon as possible. The Medical Centre is part of the National Health Service providing a full range of specialist medical services to students, staff and their families. Medical centre staff include doctors, nurses and therapists and there is access to a variety of specialist services including mental health, contraception and sexual health clinics. The Medical Centre provides an entirely confidential service. It is situated on the campus in Giles Lane past Keynes College and behind the Woodlands building. The University Nursing Services, open to all students, is available in term time in Keynes college and has inpatient facilities if required.

To register with the Medical Centre visit www.kent.ac.uk/medical/ Where you can also find further information on the University Medical Centre and the services it provides plus health advice on a variety of topics relevant to students.

10.11 Centre for English and World Languages

The Centre for English and World Languages offers the English Language Development programme for non-native speakers of English registered as students at this University. Extending over two terms, the programme consists of five components:

- Essay writing:
- Grammar:
- Listening / note-taking:
- Seminar discussion and presentation skills
- Individual writing tutorials

The course aims to help students improve their English language and gives them the chance to discuss specific difficulties. They can attend a total of 2 hours weekly in the autumn and spring terms and will receive guidance as to which of the components will be most useful to meet their particular need. Students with high attendance rates will be awarded a letter of attendance.

Booking is essential. Students interested in joining these groups should complete the online application form at: http://www.kent.ac.uk/cewl

10.12 Other Help and Guidance

In addition to School support, the University has a wide range of support services. These include:

- Admissions and Partnership Services
  www.kent.ac.uk/aps/
- Alumni Relations (Communications and Development Office)
  www.kent.ac.uk/alumni/
- Careers Advisory Service
  www.kent.ac.uk/careers/
- Chaplaincy
  www.kent.ac.uk/chaplaincy/
- Counselling Service
  www.kent.ac.uk/counselling/
- Disability and Dyslexia Support Service
  http://www.kent.ac.uk/ddss/
- Centre for English and World Language
  www.kent.ac.uk/secl/elu/
- Equality and Diversity Manager
  http://www.kent.ac.uk/hr-equalityanddiversity/
- Information Services (Computing and Library)
www.kent.ac.uk/is/
- International Office
  http://www.kent.ac.uk/international/
- Kent Law Clinic
  www.kent.ac.uk/law/clinic/

10.13 Health and Safety

The University has developed a web site and a Student Handbook to provide information and advice on important aspects of health and safety on campus.

This is available at http://www.kent.ac.uk/safety/studentsafety/index.html

The site is also accessible via the online Student Guide

Computing has a Committee which is responsible for aspects of Health and Safety within the School. Membership comprises academic, technical and administrative staff of the School together with undergraduate and postgraduate student representatives. The Committee meets once each term and its student recruitment is dealt with through the Staff-Student Liaison process described in Section 6.5.

10.14 European Credit Transfer System

The University has adopted the European Credit Transfer System (ECTS) in the context of our participation in the Erasmus programme and other European connections and activities.

What is ECTS?

ECTS, the European Credit Transfer System, was developed by the Commission of the European Communities in order to provide common procedures to guarantee academic recognition of studies abroad. It provides a way of measuring and comparing learning achievements, and transferring them from one institution to another.

Further information on ECTS is available via the online Academic Student Handbook at http://www.kent.ac.uk/academic/handbook/

10.15 Diploma Supplement

The Diploma Supplement is awarded, free of charge, to every student graduating from the University of Kent. This is in addition to the Degree Certificate.

10.15.1 What is the Diploma Supplement?

The Diploma Supplement was developed to provide students with a document that will be attached to a higher education qualification and improve international recognition of academic and professional qualifications (diplomas, degrees, certificates etc).

The supplement provides a description of the nature, level, context, content and status of the studies a student pursued and successfully completed. All graduating students of the University of Kent can apply for a Diploma Supplement.

Full information is available via the online Student Academic Handbook at http://www.kent.ac.uk/academic/handbook/
11 General Information
Staff details may be found at: https://www.cs.kent.ac.uk/people/index.html
Room information, including accessibility and directions, may be found at:
https://www.kent.ac.uk/timetabling/rooms/index.html