F2D3-CDS Bachelor of Science in Computer Science (Data Science)

PROGRAMME DETAILS
Programme Code: F2D3-CDS
Department: Computer Science
Main Award: BSCH - Bachelor of Science Honours
Full Award Title: Bachelor of Science in Computer Science (Data Science)
Level: Undergraduate

LOCATION OF STUDY
Edinburgh Y Scottish Borders N Orkney N
Dubai Y Malaysia N Approved Learning Partner N
Independent Distance Learners N Collaborative Learning Partner N Other N

ASSOCIATED AWARDS
Programme Code Award Title
F291-ZZZ BSCO Bachelor of Science in Computer Science
F2D3-CDS BSCH Bachelor of Science in Computer Science (Data Science)

ACCREDITATION
Accreditation will be sought from the British Computer Society (BCS), The Chartered Institute for IT

LEARNING OUTCOMES – SUBJECT MASTERY
Understanding, Knowledge and Cognitive Skills

- To develop knowledge and skills in the elicitation and analysis of user requirements, design and evaluation of solutions, and the implementation and quality assurance of the chosen solution.
- To be able to develop well-structured, efficient, usable and well-documented programs.
- To be able to perform data analysis on big data problems
- To know what general classes of problems are amenable to computer solution and be able to select the appropriate tools required for particular problems.
- To be able to develop an abstract model for a given problem and devise appropriate mechanized techniques to solve the problem.
- To develop the knowledge and skills required to meet the challenges of data analytics, emerging technologies and methodologies.

Scholarship, Enquiry and Research (Research Informed Learning)

- To gain an in depth understanding of the theoretical foundations of computation and its relevance to everyday computing with an emphasis on data science.
- To be able to design, implement, document, verify and validate relatively large heterogeneous software systems.
- To be able to assess the quality of software systems, both in terms of their functional and non-functional properties.

LEARNING OUTCOMES – PERSONAL ABILITIES
Industrial, Commercial and Professional Practice

- To maintain and update technical knowledge; to take responsibility for personal and professional development.
- To appraise the impact of computers on society and the influence of society on the development of the
AUTONOMY, ACCOUNTABILITY AND WORKING WITH OTHERS

- To undertake self-directed work; to assimilate information from multiple sources; to examine results and generate conclusions; to impart ideas effectively in visual, verbal or written form.
- To work effectively either individually or as part of a team.
- To apply subject-mastery outcomes, particularly in data science, to monitor, analyse, model, specify, design, communicate, implement, evaluate, control and plan.
- To be aware of, and be able to respond to, the social and legal implications and consequences of the use of computers and data
- To be able to analyse problem spaces; develop and work with abstractions; appraise material and ideas; to apply a methodical and innovative approach to problem solving; to integrate theory and practice

COMMUNICATION, NUMERACY & INFORMATION AND COMMUNICATIONS TECHNOLOGY

- To be able to communicate with peers, more senior colleagues and specialists. In addition, communicate using appropriate methods to a range of audiences, i.e. specialists and non-specialists.
- To be able to undertake critical evaluation/analysis of a wide range of numerical and graphical data.

APPROACHES TO TEACHING AND LEARNING

Lectures, Tutorials (practicals, laboratories), Coursework, (assignments, individual projects, group projects, essays, reports, presentations, log/journals, dissertation), self-study are linked to lecture-based, resource-based and problem-based teaching styles, to relate with motivational, assimilative, consolidative and evaluative phases of learning.

Approaches to teaching and learning are continually reviewed and developed with the aim of matching them to the abilities and experiences of students, with regard also for the subject area. Specific details about teaching and learning methods are provided in the appropriate course descriptors.

EDUCATIONAL AIMS OF THE PROGRAMME

The educational aim is to provide students with a theoretical foundation and applied skills in Computer Science with an emphasis on Data Science in addition to other professional skills which will enable graduates to communicate clearly, work independently and co-operate effectively. The balance of skills will enable graduates to work effectively and efficiently in industry and commerce and prepare them for postgraduate study.

ASSESSMENT POLICIES

The following assessment methods are used:

Understanding, knowledge and subject specific skills are assessed through the range of methods reflected by written examinations, coursework assignments, software artefacts, group and individual projects, written reports and oral presentations. Diagnostic, formative, continuous and summative types of assessment aim to correlate with methods of assessment.
Approaches to assessment are continually reviewed. Specific details about methods of assessment are provided in the appropriate course descriptors.

### PROGRAMME STRUCTURE

#### Mandatory Courses

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# F2D3-CDS Bachelor of Science in Computer Science (Data Science)

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### Optional Courses

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### ELECTIVES (UG)

Stage 1
N/A

Stage 2
N/A

Stage 3
N/A

Stage 4
N/A

Stage 5
N/A

### COMPOSITION AND STAGE NOTES (UG)

Stage 1
8 taught courses, all mandatory
**Mandatory Credits 1** | 120
---|---
**Optional Credits 1**
**Elective Credits 1**
**Total 1** | 120

**Stage 2**

8 taught courses, all mandatory. Direct entrants to Stage 2 and internal transfers from other degrees will be expected have an appropriate background in programming and database technology

**Mandatory Credits 2** | 120
**Optional Credits 2**
**Elective Credits 2**
**Total 2** | 120

**Stage 3**

8 taught courses, all mandatory
Direct entrants to Stage 3 will be expected have appropriate programming experience and background knowledge.
Candidates shall pursue a group project throughout the year, which shall be synoptically assessed in conjunction with material from the associated courses (F29SO and F29PD).

**Mandatory Credits 3** | 120
**Optional Credits 3**
**Elective Credits 3**
**Total 3** | 120

**Stage 4**

8 taught courses, 5 mandatory and 3 optional

To graduate with the degree BSc (Hons) Computer Science (Data Science) candidates must take the following 2 mandatory courses in Stage 4:

- Data Mining & Machine Learning (F20DL) - Semester 1
- Big Data Management (F20BD) - Semester 2

Students on this specialism must do **one of the following 2 optional courses** in Stage 4:

- Data Visualisation & Analytics (F20DV) - Semester 2
- Statistical Modelling and Analysis (F20SA) - Semester 1

Students choose 2 optional courses in semester 1 and 1 optional course in semester 2.

For Edinburgh Campus, students must apply to take the course F20CL Computing in the Classroom prior to the end of Stage 3 to allow time for placements to be organised.

Students on this specialism must do an **approved dissertation topic suitable for this specialism**. The 4th year Project Coordinator is responsible for approving dissertation topics for this
specialism. Students are required to undertake the individual dissertation project (F20PA, F20PD, and F20PE) which shall run throughout the year.

In any one year not all optional courses or combinations of optional courses may be offered. Guidance on course choice will be given by academic Personal Tutors.

Honours degree classification is determined by performance in:

- Stage 3 averaged over all 8 courses (20%) at the first attempt
- The 5 assessed courses in Stage 4 (50%)
- The individual dissertation project in Stage 4 (30%) (F20PA/F20PD/F20PE)

<table>
<thead>
<tr>
<th>Course Level</th>
<th>Mandatory Credits</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage 4</td>
<td>4</td>
<td>75</td>
<td>45</td>
<td>120</td>
</tr>
<tr>
<td>Stage 5</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**ASSESSMENT AND PROGRESSION (UG)**

**Reassessment Opportunities**

1. A student who has been awarded a Grade E or a Grade F in a course may be re-assessed in that course.
2. A student shall be permitted only one re-assessment opportunity to be taken at the Resit diet of examination following the first assessment of the course.
3. A student shall not be re-assessed in any qualifying course taken in the final stage of a course of study.
4. The Progression Board may permit a student to be re-assessed in any qualifying course not taken in the final stage in order to gain credits for the course, provided that the mark or grade obtained in the first assessment of any such course is used in determining the classification of the degree to be awarded.

**Progression Requirements**

Part A. The minimum number of credits required to progress through each stage are as follows

<table>
<thead>
<tr>
<th>Stage</th>
<th>Credits Required</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 2</td>
<td>120 credits (8 courses)</td>
<td></td>
</tr>
<tr>
<td>2 to 3</td>
<td>240 credits (16 courses)</td>
<td></td>
</tr>
<tr>
<td>3 to 4</td>
<td>360 credits (24 courses) and an overall assessment average of 50% or above at the first attempt</td>
<td></td>
</tr>
<tr>
<td>4 to 5</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

Part B. The minimum grade of D is required in the following courses

<table>
<thead>
<tr>
<th>Stage 1</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Software Development (F27SA), Introduction to Interaction Design (F27ID), Logic &amp; Proof (F17LP), Web Design &amp; Databases (F27WD), Introduction to Computer Systems (F27CS), Software Development 2 (F27SB) and Discrete Mathematics (F17SC)</td>
</tr>
</tbody>
</table>
Stage 2
User-Centred Experimental Design (F28ED), Web Programming (F28WP), Data Structures & Algorithms (F28DA), Database Management Systems (F28DM), Software Design (F28SD), Programming Languages (F28PL), Introduction to Data Structures & Algorithms (F28SG) and Hardware-Software Interface (F28HS).

Stage 3
6 courses including Software Engineering (F29SO) & Professional Development (F29PD).

Progression to Stage 4 requires an an overall assessment average of 50% or above at the first attempt. Re-assessment in Stage 3 is available for credit only and not to improve overall average.

Stage 4
N/A

AWARDS, CREDITS AND LEVEL (UG)

<table>
<thead>
<tr>
<th>Part A. Credit Requirements</th>
<th>Overall Credits</th>
<th>Specific Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Masters</td>
<td>600</td>
<td>600 SCQF credits including a minimum of 120 credit at Level 11</td>
</tr>
<tr>
<td>Honours Degree (inc.MA)</td>
<td>480</td>
<td>480 SCQF credits including a minimum of 180 credit at Level 9 and 10 of which at least 90 credits at Level 10</td>
</tr>
<tr>
<td>Ordinary or General Degree</td>
<td>360</td>
<td>360 SCQF credits including a minimum of 60 credit at Level 9</td>
</tr>
<tr>
<td>Diploma of Higher Education</td>
<td>240</td>
<td>240 SCQF credits including a minimum of 90 credit at Level 8</td>
</tr>
<tr>
<td>Certificate of Higher Education</td>
<td>120</td>
<td>120 SCQF credits including a minimum of 90 credit at Level 7</td>
</tr>
</tbody>
</table>

Part B. Mark/Grade Requirements

<table>
<thead>
<tr>
<th>Overall Mark</th>
<th>Overall Grade</th>
<th>Basis of Overall Mark/Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;=50%</td>
<td>C</td>
<td>Credit Weighted Average &gt;=50% over all qualifying courses at Grades A-D</td>
</tr>
<tr>
<td>&gt;=40%</td>
<td>D</td>
<td>1st: Credit Weighted Average &gt;=70% Over all qualifying courses at grades A-D. 2.1: Credit Weighted Average &gt;=60% Over all qualifying courses at grades A-D. 2.2: Credit Weighted Average &gt;=50% Over all qualifying courses at grades A-D. 3rd: Credit Weighted Average &gt;=40% Over all qualifying courses at grades A-D.</td>
</tr>
<tr>
<td>&gt;=40%</td>
<td>D</td>
<td>Minimum of grade D in all pre-requisite courses.</td>
</tr>
<tr>
<td>&gt;=40%</td>
<td>D</td>
<td>Minimum of grade D in all pre-requisite courses.</td>
</tr>
</tbody>
</table>

DURATION OF STUDY

<table>
<thead>
<tr>
<th>IN MONTHS</th>
<th>Full-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Masters</td>
<td>60</td>
</tr>
<tr>
<td>Honours Degree</td>
<td>48</td>
</tr>
<tr>
<td>Ordinary or General Degree</td>
<td>36</td>
</tr>
<tr>
<td>Diploma of Higher Education</td>
<td>24</td>
</tr>
<tr>
<td>Certificate of Higher Education</td>
<td>12</td>
</tr>
</tbody>
</table>