# UNIVERSITY OF NORTHAMPTON

# MODULE SPECIFICATION

This document forms the definitive overview as to the nature and scope of this module and is used in the University’s quality assurance processes. The information in this document cannot be changed without approval (except for the Indicative Content).

[A glossary of key terms is available.](https://www.northampton.ac.uk/ilt/current-projects/defining-contact-time/types-of-student-contact-time/)

|  |  |
| --- | --- |
| **FACULTY** | Faculty of Art, Science & Technology |
| **SUBJECT AREA** | Technology |
| **SUBJECT FIELD** | Computing |
| **MODULE TITLE** | Relational Databases |

|  |  |
| --- | --- |
| **MODULE CODE** | CSY2080 |
| **LEVEL** | 5 |
| **CREDIT VALUE** | 20 |
| **MODULE LEADER** | Mandy Morrell |

|  |  |
| --- | --- |
| **DELIVERY MODE(S)** | Standard |
| **DELIVERY LOCATION(S)** | UON |

**PRE-REQUISITES:**None

**CO-REQUISITES:**None

**RESTRICTIONS:**   
  
CSY2093

**SUPPLEMENTARY REGULATIONS**:   
  
This module has supplementary regulations Yes / **No**

**MODULE OVERVIEW:**

The purpose of this module is to understand and apply the principles of database integrity to implement and utilise efficient databases. RD is a practical module that employs data modelling and SQL techniques to design, define and manipulate data.

**INDICATIVE CONTENT:**

The module concentrates on the components of relational databases and the process of data design, definition and manipulation to develop effective database structures. Students interpret user requirements into Entity Relationship Models (ERM), which they then implement with integrity using Structured Query Language (SQL).

**LEARNING OUTCOMES:**

|  |
| --- |
| **Module Learning Outcome** |
| **On successful completion of the module students with guidance, students will be**  **able to:** |
| **Subject-Specific Knowledge, Understanding & Application** |
| 1. Implement data modelling techniques to produce an ERM |
| 1. Interpret an ERM to define a relational database using SQL script files. |
| 1. Model and implement database integrity |
| 1. formulate and write queries to manipulate data and provide meaningful results |
| **Changemaker & Employability Skills** |
| 1. Problem solving: Evaluate datasets to discover insights and address potential problems. |

**Readers are referred to the Programme Specification document for the list of PSRB requirements met by this module.**

**TYPICAL LEARNING, TEACHING AND ASSESSMENT HOURS (for the module as delivered on-site at the University of Northampton):**

[View this table on how learning, teaching and assessment hours map to the KIS Categories.](https://www.northampton.ac.uk/ilt/current-projects/defining-contact-time/kis-guidance/)

|  |
| --- |
| **Learning and teaching information for this module when delivered off-site by UN partners is available from the partner institution’s NILE site (or equivalent). Any variation in study hours must be approved by the University of Northampton before students are enrolled, ensuring that study hours provision is always appropriate to support student achievement of the module learning outcomes.** |

|  |  |
| --- | --- |
| **Learning, Teaching and Assessment activities** | **Study hours** |
| **Contact hours: (total)**  Comprising face-to-face and online contact hours as follows: | **48** |
| * **Face-to-face (total) -** this may include the following: * Face to face interactive small group session (generic space in groups of approx. 30 e.g. seminars/workshops/tutorials) * Specialist space (e.g. laboratories, studio space) | 48 |
| * **Online contact hours** **(total)**  (comprising online activities with mediated tutor input) | 2 |
| **Guided independent study hours**  **(including hours for assessment preparation)** | **150** |
| **Module Total** | **200** |

**ALIGNMENT OF LEARNING OUTCOMES AND ASSESSMENTS:**

**University of Northampton:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment Activity** | | | **Learning Outcomes** | **Weighting (%)** |
| **Code** | **Assessment Type** | **Assessment Deliverables** |  |  |
| TC1 | Time Constrained  Assessment | Individual 1 hour test | a,b,c | 50 |
| PJ1 | Implementation | Table specifications  Script files  10 minute Demonstration | b,c,d,e | 50 |
| Students will be marked with reference to database integrity, industry good practice and professionalism | | | | |

The assessment items listed above are graded and contribute to the overall module grade (assessment *of* learning). In addition, there are opportunities for formative assessment (assessment *for* learning), which are ungraded, to support students in achieving the module learning outcomes. These are NOT listed.

**APPROVAL/ REVIEW DATES:**

Version: 1

Date of approval: