# 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/)

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| **FACULTY** | Faculty of Art, Science & Technology |
| **SUBJECT AREA** | Technology |
| **SUBJECT FIELD** | Computing |
| **MODULE TITLE** | Web Programming |

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| **MODULE CODE** | CSY2089 |
| **LEVEL** | 5 |
| **CREDIT VALUE** | 20 |
| **MODULE LEADER** | Thomas Butler |

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

**PRE-REQUISITES\*:**

CSY1063

**CO-REQUISITES\*:**

None

**RESTRICTIONS\*:**

None

**SUPPLEMENTARY REGULATIONS**\*:

This module has no supplementary regulations

**MODULE OVERVIEW:**

This purpose of this module is to give students an understanding of the conceps and technologies of web based server side technologies; teach students to use up-to-date programming techniques to design and develop coherent server side software for websites with a focus on security, functionality and usability.

**INDICATIVE CONTENT:**

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| Web servers   * How the web works * Setting up a local development environment using relevant stack (e.g. Docker)   PHP   * Basics * Connecting to MySQL * Object-Oriented programming * Security * Writing reusable code * Project specific vs reusable classes * Framework components   + - Template systems     - Controllers     - Routing     - Object-Relational Mappers * URL rewriting   Unit testing   * Writing testable code * Writing unit tests |

**LEARNING OUTCOMES:**

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| **Module Learning Outcome** |
| **On successful completion of the module with guidance, students will be able to:** |
| **Subject-Specific Knowledge, Understanding & Application** |
| 1. Design and implement dynamic applications for the Internet |
| 1. Implement modern best practice development techniques to develop a website |
| 1. Explain and assess the importance of good design criteria in Internet multimedia systems |
| 1. Make, justify and implement decisions following careful evaluation of options for website development |
| **Changemaker & Employability Skills** |
| 1. Synthesize information by bringing together in a coherent way various aspects of an issue and present interpretations clearly and logically |
| 1. Evaluate alternative approaches to problem solving and justify proposed recommendations |

**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/)

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| **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.** |

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| **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:   Specialist space (e.g. laboratories, studio space) | 40 |
| * **Online contact hours** **(total)**  (comprising online activities with mediated tutor input) | 8 |
| **Guided independent study hours  (including hours for assessment preparation)** | **152** |
| **Module Total** | **200** |

**ALIGNMENT OF LEARNING OUTCOMES AND ASSESSMENTS:**

**University of Northampton:**

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| --- | --- | --- | --- | --- |
| **Assessment Activity** | | | **Learning Outcomes** | **Weighting (%)** |
| **Code** | **Assessment Type** | **Assessment Deliverables** |  |  |
| AS1 | Assignment | Source Code | b,d,e | 50 |
| AS2 | Assignment | Source Code for website, 1000 word report | a,b,c,d,e,f | 50 |

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 (was CSY2028)**

Date of approval: