

**Internet Technologies**

**MODULE SPECIFICATION**

**PART 1: INFORMATION**

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| **Module Title** | **Internet Technologies** |
| **Module Code** | **LIT308-15BF** |
| **Level** | **3** |
| **Credit Rating** | **15 credits** |
| **Pre-requisites** | **Meet BSc (H) Entry requirement** |
| **Contributes towards:** | **4 years BSc(Hons)** |
| **Duration:** | **One semester (two start dates per year)** |
| **Contact Hours** | **48 hours (virtual, face to face, or blended)** |

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| **Version/amendments** | **Validated** | **Delivered** | **Reason for amendment** |
| Version 1 | **22/09/2020** | **02/10/2020** | **n/a** |
| Version 2 | **08/10/2021** |  | **Programme refresh** |

**PART 2: MODULE DESCRIPTION**

This module aims to introduce students to a range of current Internet technologies from both a theoretical and practical perspective. This module serves as an introduction to internet technologies. Fundamental principles are to be taught which are common to client-based web technology.

**Weekly Delivery Plan**

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| **Week** | **Contact Hours** | **Topics** |
| 1 | 4 | **Introduction/ Web Servers**   * Introduction to the module * Internet concepts, Browser, http, https, www, url, uri, search engine   ***(Hands-in Assignment- Submission)***  Lab: Feedback and support - lab exercises  Lab: Introduction to the lab exercises, |
| 2 | 4 | **Web Servers:**   * Webserver * Domain Registration, WHM, FTP, CPANEL * Email   Lab: Feedback and support - lab exercises |
| 3 | 4 | **Version Control / Wireframes:**   * Github, * Gitlab, * Apache Subversion * Wireframes * Mock-up   Lab: Feedback and support - lab exercises |
| 4 | 4 | **Web Designing:**   * HTML (Structure, Text Formatting, List)   Lab: Feedback and support - lab exercises |
| 5 | 4 | **Web Designing:**   * HTML (Structure, Text Formatting, List) * Hyperlink * Image * Table   ***(Hands-in Assignment- Test)***  Lab: Feedback and support - lab exercises |
| 6 | 4 | **Designs and CSS Basics**   * Form * (Site Layout Design) * CSS Basics * CSS Background * CSS Border * CSS Box Model * CSS Font * CSS Text * CSS LIST * CSS Positioning * CSS MEDIA * (Complete Layout Design)   Feedback and support - lab exercises |
| 7 |  | Week 7- Course work submission followed by Demonstration. |
| 8 | 4 | **Designs and CSS Basics**   * Form * (Site Layout Design) * CSS Basics * CSS Background * CSS Border * CSS Box Model * CSS Font   Feedback and support - lab exercises |
| 9 | 4 | **JavaScript / Security and Digital Script**   * JavaScript Basic * Internet Security * Digital Signature |
| 10 | 4 | **Introduction to Version Control**   * Version Control * Version Setup |

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| **PART 3: ASSESSMENT** | | |
| Component A is an Assessment based submission. The assessment aims to achieve two things:  a) Complete a portfolio of lab exercise  b) Design, implement and host a website  Component B is a time constrained practical examination where students web design skills will be examined. Students will have a pre-scheduled 2-hour closed-book practical examination to develop a webpage within stipulated time. | | |
| **Assessment Components** | **Weight (%)** | **Submission Deadline** |
| Component A: Coursework followed by  Presentation | 40 | Week 6 |
| Component B: Portfolio Submission | 60 | Week 11 |
| **Total** | **100** |  |
| **First Sit** | | |
| **Component A**  **Description of each element** | | **Weight (%)** |
| Coursework followed by  Presentation (Followed by Demonstration) | | 40 |
| **Component B**  **Description of each element** | |  |
| Portfolio Submission (Followed by demonstration) | | 60 |
| **Total Weight (%)** | | **100** |
| **Resit** *(further attendance at taught classes not required)* | | |
| **Component A**  **Description of each element** | |  |
| Presentation (Followed by Demonstration) | | 40 |
| **Component B**  **Description of each element** | |  |
| Portfolio Submission (Followed by demonstration) | | 60 |
| **Total Weight (%)** | | **100** |

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| **PART 4: TEACHING AND LEARNING METHODS**  The delivery includes a series of lectures covering the underpinning concepts and languages used for website development. The practical lab sessions will provide an opportunity for completing a portfolio of lab exercises followed by feedback and support to complete a lab test and develop and host a website. | | |
| **Learning Outcomes** | Learning outcome 1:  Describe a range of current Internet technologies including internet security and how they are implemented.  Learning outcome 2:  Describe the purpose, features, advantages and disadvantages of each software utility.  Learning outcome 3:  Demonstrate an ability to create basic Web pages with HTML, CSS and simple Scripting Language and write code to solve simple problems..  Learning outcome 4:  Describe and explain the characteristics of scripting languages. | |
| **Key Information Sets and Contact Hours** | Credits | 15 |
| Scheduled learning and teaching study hours  (Lecture:18 hrs,  Practical:30 hrs) | 48 |
| Examination hours | 2 |
| Independent study hours | 102 |
| Total allocated hours | 150 |
| Assessment | Presentation submission 40%  Portfolio 60% |
| **Reading Strategy** | **Reading Strategy**  The material will typically be delivered by tutor introductions to each topic followed by supervised laboratory sessions.  Each session will include formative practical exercises, each of which will be designed to contribute to the learning outcomes.  The scheduled contact time is unlikely to be enough to complete all the lab exercises and  the development and hosting of the website and students are expected to complete the lab  exercises in their own time as required. | |

**References**

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| 1 | **Books** | | |
| Author/ Editor | | Comer, Douglas E. | |
| Title | | The Internet | |
| Edition | | Pearson Education Asia | |
| Publication Year | | 2011 | |
| Publisher | |  | |
| ISBN | |  | |
| OR: paste Harvard reference here: | |  | |
| Recommended reading (delete as appropriate) | | | |
| Recommended for Purchase | | | N |
| 2 | | **Books** | |
| Author/ Editor | | [Jennifer Niederst Robbins](https://b-ok.asia/g/Jennifer%20Niederst%20Robbins) | |
| Title | | Learning Web Design - A Beginner’s Guide to HTML, CSS, JavaScript, and Web Graphics | |
| Edition | |  | |
| Publication Year | | 2018 | |
| Publisher | | O'Reilly Media | |
| ISBN | | 9781491960202 | |
| OR: paste Harvard reference here: | |  | |
| Recommended reading (delete as appropriate) | | | |
| Recommended for Purchase | | | N |
| 3 | | **Books** | |
| Author/ Editor | | [David Sawyer McFarland](http://shop.oreilly.com/product/0636920015048.do?green=1AAAB780-4182-508E-958E-018F0B2E36B2&cmp=af-mybuy-0636920015048.IP#tab_04) | |
| Title | | JavaScript &jQuery: The Missing Manual | |
| Edition | |  | |
| Publication Year | | 2011 | |
| Publisher | | O'Reilly Media / Pogue Press | |
| ISBN | |  | |
| OR: paste Harvard reference here: | |  | |
| Recommended reading (delete as appropriate) | | | |
| Recommended for Purchase | | | N |

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| 4 | **Books** | |
| Title | | HTML and CSS. Learn The Fundamentals In 7 days |
| Publisher | | Micheal Knapp |
| Author | | Micheal Knapp |
| ISBN | | 9781542829908 |
| Publication year | | 2017 |