BIC4029-B module descriptor	
Module Title	Introduction to Web Development
Credit Level	20 credits (FHEQ Level 4)
Session	2026/7 academic year
BDA occurrence	Non Standard Year available at University of Bradford
BDA occurrence	Semester 3 available at University of Bradford

Transparency notice

This specification for module code BIC4029-B has been generated automatically in advance of the academic year 2026/7. Every effort has been made to ensure that the information is accurate at the time of publication, but changes permitted by our Student Contract Terms and Conditions could be made in the interval between publishing and commencement of teaching; where changes impact the terms and conditions of an applicant's or student's offer, these are communicated to them as soon as possible.

BIC4029-B module aims

The module introduces students to structures, key concepts and standards of the World Wide Web. It provides practical experience and theoretical understanding of the tools, techniques and technologies which are deployed to develop the content, presentation and interactive features of basic websites and web applications. Students learn how to build, test and de-bug web pages using a web browser, and ensure that these conform to recognised industry-wide standards. The module will also develop students' research skills by encouraging them to explore the theoretical concepts in the real-life context of firms and organisations which depend on well-designed and managed internet technologies.

BIC4029-B module learning outcomes

No.	Students completing the module will be able to:
01	Demonstrate knowledge and understanding of the principles and standards of web design and development
02	Describe and analyse the real or potential impact of web development/internet technologies on a given organisation and/or business
03	Explain the key concepts underpinning the building and running of websites and web applications.
04	Use effective tools and techniques to develop, build, test and de-bug a website.

BIC4029-B module outline syllabus

Basic principles underpinning the structure of the World Wide Web. Syntax of HTML5 mark up, CSS selectors, CSS box model and synergetic layout techniques. JavaScript and the Document object model. Data interchange technologies (e.g. JSON) and JavaScript. Programming tools and environments of web development. Contemporary techniques such as web-fonts, icon-fonts, resource minification and responsiveness. Basics of search engine optimisation and visitor analytics. Internet technologies in context - the impact of the Internet on organisations of different types, the growth of ecommerce, environmental concerns and the significance of ethical considerations, especially data protection, security and sustainability.

For more information, visit the VLE (**Canvas**) page, go to our **Reading Lists webpage for this module** or search **https://bradford.rl.talis.com** for this module.

BIC4029-B module notional learning hours

- 30 hours Lectures
- 20 hours Practical Classes or Workshops
- 150 hours Directed Study

The overall expected hours may include contact time, scheduled learning activity, directed and independent study and any minimum expectations for placement learning. Most learning at the University of Bradford has some online content and sessions which are delivered fully by virtual means are labelled as "online".

BIC4029-B module learning, teaching and assessment

Students will be taught this module in a group of up to 18. Teaching involves formal classes but there will be considerable emphasis on interactivity between teacher and students and between individual students within the group. Delivery will be over a 10-week term with 5 contact hours per week, two of which will be conducted as practical sessions in a computing lab. Students will be expected to spend a minimum of a further 50 hours in self-study, reviewing and consolidating material studied and skills acquired, and preparing for their future classes, assignments and summative assessments: the interim test with a focus on topics studied early in the module, and the final coursework task, the design of a personal web page. Shorter-term preparatory exercises and tests will be set during the programme. These formative assessments will not contribute to the final module assessment but will be marked and used to provide detailed feedback to assist the students to prepare for the interim test and the coursework task which contribute to the summative assessment. Student progress will be closely monitored by both subject staff and each student's Personal Tutor. Tutors hold one to one sessions with students during which they are encouraged to reflect on their own progress in meeting the objectives of the module. Out of this monitoring will come provision, as necessary, of learner support in specific weaker areas or where students are making limited progress. The ultimate aim is to build student confidence to the point where they will become independent learners.

Assessment supports the development of both practical web development skills and understanding of web technologies.

The interim test (30%) assesses Learning Outcomes 1-3 through structured questions covering web standards, internet technologies and development concepts.

The website project (70%) assesses Learning Outcomes 2-4 and requires students to design, build, test and evaluate a functioning website. Students submit source files and supporting documentation.

Formative opportunities include coding exercises, website reviews, debugging workshops and peer feedback activities.

Success is demonstrated through creation of a functional standards-compliant website and the ability to justify design choices.

To pass the module, students must achieve the University pass mark overall. Students who do not pass the first time will be given an opportunity to complete equivalent assessments that address the failed learning outcomes.

BIC4029-B mode of assessment			
Type	**Mode**	**Assessment description**	**Weight**
Summative	Examination - Closed Book	Interim Test (1 Hr)	30%
Summative	Coursework - Written	Students design, build and test their own web presence	70%

All module specification content is © 2026/7 The University of Bradford