

ACCA4023 — HTML & CSS Web Development / Database Weekly Schedule

Two 2-hour sessions per week: Session 1 is lecture (concepts + assessment brief walkthrough); Session 2 is hands-on practice (MS Access through Week 5, then HTML/CSS in Notepad++ from Week 5 onward). The final column maps each week to the specific tasks in the ACCA4023 Component 1 (C1 — database) and Component 2 (C2 — website) assessment briefs.

Week / Topic	Session 1 (2 hrs) — Lecture: Concepts & Assessment Brief	Session 2 (2 hrs) — Practice: MS Access / HTML & CSS (Notepad++)	Assessment Brief Mapping (ACCA4023, C1 & C2)
Database Management System			
Week 1 Introduction to Database and DBMS	Concepts of data vs information; what a database is; DBMS overview and its advantages over spreadsheets/files. Introduce Component 1 (C1) brief: FastBites scenario, deliverables (report + .accdb), submission details, marking scheme overview.	MS Access; tour the interface (ribbon, objects pane — tables, queries, forms, reports). Create a blank database; explore field data types.	C1 Task 1 — Requirement Analysis: Start summarising FastBites' business requirements and key needs/objectives from the scenario.
Week 2 Database Design Modelling Techniques	Database design lifecycle (conceptual/logical/physical); overview of modelling techniques. Explain brief requirement for Entity Analysis: attributes, relationships, cardinality, participation constraints.	MS Access: creating tables, defining fields, choosing data types/field properties, setting primary keys.	C1 Task 2 — Entity Analysis: Identify entities, define attributes, describe relationships, cardinality and participation constraints for FastBites.
Week 3 Entity Relationship Modelling	ER modelling notation, entities/attributes/relationships, cardinality and participation constraints in depth. Explain the ERD task: what a well-formed ERD must show, and expected notation.	MS Access: building relationships between tables (Relationships window), enforcing referential integrity, primary/foreign keys.	C1 Task 3 — ER Diagram: Produce an ERD representing all entities, attributes, relationships and constraints, using a recognised notation.
Week 4 Normalization: Relational database Implementation using DBMS	Functional dependencies; normal forms 1NF–3NF; mapping an ER diagram to a relational schema. Explain the Relational Schema and Normalization task requirements.	MS Access: refining table structures to remove redundancy, splitting tables, implementing the normalized schema and foreign keys.	C1 Task 4 — Relational Schema (ER-to-relational mapping) and C1 Task 5 — Normalization (apply normalization to produce well-structured tables, up to 3NF).
Week 5 MS Access	Queries, forms and reports overview.	MS Access: build the FastBites database end-to-end — implement all normalized tables with FKs, populate each with ≥ 5 records	C1 Task 6 — Database Implementation (MS Access):

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	Explain Task 6 in full: implementation, FK constraints, data population, testing, and query design/justification.	(with screenshots), design ≥3 meaningful queries with clear names and descriptions.	tables, FK constraints, data population + screenshots, validation testing, and ≥3 meaningful queries with descriptions/business justification.
HTML			
Week 6 Front End Development – Key Techniques	Overview of front-end development and web technologies; website planning and structure. Wrap up remaining C1 report sections; introduce Component 2 (C2) brief — scenario, deliverables (5-page hand-coded site + specification report), submission details.	Install and set up Notepad++ for web development (syntax highlighting, plugins, file/folder structure). Plan the site map and navigation structure for the 5-page website.	C1 Tasks 7–11 (Design Decisions, Reflection, Future Improvements, Conclusion, References) to be finalised. C2 Task 1 — planning: site structure, page list, navigation design.
Week 7 HTML	HTML fundamentals: document structure, semantic elements, headings, paragraphs, lists, links, images, tables. Explain Task 1's HTML requirements: ≥5 linked pages, homepage as index.html, nav menu on every page, text/images/links throughout.	Notepad++: build the HTML skeleton for all 5 pages, add the navigation menu, insert content/images/links, test offline via index.html.	C2 Task 1 — Website (HTML build): homepage (index.html), ≥5 linked pages, consistent nav menu, text/images/links on all pages, works offline.
Week 8 CSS – Cascading Stylesheet	CSS fundamentals: selectors, box model, basic layout (flex/grid), responsive design principles, consistent styling.	Notepad++: style all pages with CSS for a clean, consistent, responsive layout; link stylesheet(s) to every page and test in-browser.	C2 Task 1 continued (CSS): responsive design, clean layout, consistent design across all 5 pages.
Week 9 Website evaluation Techniques	Usability and accessibility concepts for the evaluation section; SEO basics. Validation techniques (W3C HTML/CSS validators) and how to interpret/report errors.	Validate homepage HTML & CSS via the W3C validators, fix errors, take validation screenshots. Begin drafting Task 2 report sections: Cover Page, Table of Contents, Introduction, Requirements, Implementation (screenshots), Evaluation.	C2 Task 2 — Written Report: Implementation section (page + validation screenshots and fixes) and Evaluation section (usability, accessibility, functionality, suggestions for improvement).

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Week 10 Revision & Formative feedback	Revision of both components; recap the five generic marking criteria (Literature, Knowledge & Understanding, Cognitive & Intellectual, Practical, Transferable Skills); open Q&A.	Submission readiness check: C1 (Word report + .accdB), C2 (Turnitin report + .zip of website files); referencing (IEEE) check; word count compliance; formative feedback.	Final review against both Assignment Marking Schemes and Submission Details for C1 and C2.

Key dates:

Assessment 1 Submission date: **10-11-2026 2 pm**

Assessment 2 Submission date: **04-12-2026 2 pm**