S3 National 5 Timeline

Month	Unit	Content	HW/Assessment
JUN	Computer Systems	Binary system and floating point representation	
JUN	Computer Systems	Text and graphics data (bit mapped and vector)	
JUN	Computer Systems	Using SVG to create Vector graphics in HTML	
AUG	Computer Systems	CPU Structure and buses	Hardware 1
AUG	Computer Systems	Environmental Impact and security precautions Security Precautions (firewalls and encryption) + hardware Investigation	
SEP	Computer Systems	Translation Software + Hardware Investigation	Hardware 2
SEP	Computer Systems	Revision for test	Computer Systems Test
SEP	Database Design and Development	• What is a database? • Structure of a database including field types (all) • Searching a database	
SEP	Database Design and Development	• Sorting a database • Validation – range, presence, restricted choice and field length • Analysis –end user and functional requirements	Database HW 1
OCT	Database Design and Development	• Relational V Flat • Primary and foreign keys (entity and attributes) • Data Dictionary	
OCT	Database Design and Development	• Practical work using Access • Relationships and ER Diagrams	
OCT	Database Design and Development	• SQL – Select clause with AND, OR, <, >, = • SQL – Select order by with a maximum of two fields	Database HW 2
NOV	Database Design and Development	• Practical work with SQL	½ block Test
NOV	Database Design and Development	• SQL – INSERT • SQL – UPDATE • General Data Protection Regulation	
NOV	Database Design and Development	• SQL - equi-join between tables • Describe and exemplify testing - SQL operations work correctly at this level • Evaluate solution in terms of - fitness for purpose and accuracy of output	Database Homework 3

NOV	Database Design and Development	• Practical work with SQL	
DEC	Database Design and Development	• Sample coursework Task on Database only • Sample coursework Task on Database only • Sample coursework Task on Database only	
DEC	Database Design and Development	• Sample coursework Task on Database only • Sample coursework Task on Database only • Sample coursework Task on Database only	Database Test
DEC	Database Design and Development	• Sample coursework Task on Database only • Sample coursework Task on Database only Sample coursework Task on Database only	
JAN	Web Design and Development	• Websites – functions of browser hyperlinks and URL • User requirements and functional requirements • HTML Coding (Revision of S2 work on head,body, paragraph, img and lists) • Internal and External hyperlinks and absolute and relative addressing)	
JAN	Web Design and Development	• Website design end-user requirements, effective user-interface design (visual layout and readability) using wire-framing: • HTML Coding (Revision of S2 work on head,body, paragraph, img and lists) • HTML Coding (Revision of S2 work on head,body, paragraph, img and lists)	HTML HW1
JAN	Web Design and Development	• HTML Coding (Revision of S2 work on head,body, paragraph, img and lists) • Copyright Design and Patents Act • Prototyping(low fidelity) • Wireframes	
JAN	Web Design and Development	• HTML Coding DIV • File formats including WAV, MP3 JPEG GIF and the need for compression • HTML Practical	HTML HW 2
FEB	Web Design and Development	• HTML Practical • HTML Practical • HTML Practical	
FEB	Web Design and Development	• Audio and Video Tags • HTML Practical • HTML Practical	
FEB	Web Design and Development	• Javascript Onmouseover and Onmouseout • HTML and Javascript tasks • HTML and Javascript tasks	CSS HW 1

FEB	Web Design and Development	• CSS (internal and external) • Selectors classes and IDs • Implementation of — text: font (family, size) color alignment background colour	
MAR	Web Design and Development	• Linking external stylesheets • Practical work on CSS • Testing (matches user-interface design, links and navigation work correctly, media (such as text, graphics, and video) display correctly ,consistency) • Evaluation – fit for purpose	CSS HW 2
MAR	Web Design and Development	• Superhero for Hire website • Superhero for Hire website • Superhero for Hire website	
MAR	Web Design and Development	• Superhero for Hire website • Superhero for Hire website • Superhero for Hire website	Web Written Test
MAR	Web Design and Development	• Sample coursework Task on Web only • Sample coursework Task on Web only • Sample coursework Task on Web only	
APR	Web Design and Development	• Sample coursework Task on Web only • Sample coursework Task on Web only • Sample coursework Task on Web only	
APR	Web Design and Development	• Sample coursework Task on Web only • Sample coursework Task on Web only • Sample coursework Task on Web only	
MAY	Software Design and Development	• Software Development Process • VB Practical • VB Practical	
MAY	Software Design and Development	• Variable types (character, string, numeric {integer and real} and Boolean) • Describe, exemplify, and implement the appropriate constructs in a high-level (textual) language: expressions to assign values and expressions to return values using arithmetic operations (addition, subtraction, multiplication, division, and exponentiation)	
MAY	Software Design and Development	• expressions to concatenate strings • selection constructs using complex conditional statements and logical operators (AND, OR, NOT) • VB Practical	SDD HW 1
MAY	Software Design and Development	• Describe, identify, and be able to read and understand: structure diagrams, flowcharts, pseudocode • VB Practical	

		• VB Practical	