**S4 National 5 Timeline**

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| Month | Unit | Content | HW/Assessment |
| AUG | Database Design and Development | * What is a database? * Structure of a database including field types (all) * Searching a database |  |
| AUG | Database Design and Development | * Sorting a database * Validation – range, presence, restricted choice and field length * Analysis –end user and functional requirements | Database HW 1 |
| SEP | Database Design and Development | * Relational V Flat * Primary and foreign keys (entity and attributes) * Data Dictionary |  |
| SEP | Database Design and Development | * Relationships and ER Diagrams * SQL – Select clause with AND, OR, <, >, = * SQL – Select order by with a maximum of two fields | Database HW 2 |
| SEP | Database Design and Development | * SQL – INSERT * SQL – UPDATE * General Data Protection Regulation |  |
| SEP | 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 | SQL HW 1 |
| OCT | Database Design and Development | * SQL booklet and Sample coursework Task on Database only * SQL booklet and Sample coursework Task on Database only * SQL booklet and Sample coursework Task on Database only |  |
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| OCT | Database Design and Development | * SQL booklet and Sample coursework Task on Database only * SQL booklet and Sample coursework Task on Database only * SQL booklet and Sample coursework Task on Database only | SQL HW2 |
| NOV | Database Design and Development | * SQL booklet and Sample coursework Task on Database only * SQL booklet and Sample coursework Task on Database only * SQL booklet and Sample coursework Task on Database only |  |
| NOV |  | * Exam * Revision of SDD,DDD and CS (exam type questions) * Revision of SDD,DDD and CS (exam type questions) | Database Block Assessment |
| NOV |  | * Revision of SDD (exam type questions) * Revision of SDD (exam type questions) * Revision of SDD (exam type questions) | Revision for Prelim |
| NOV |  | * Revision of SDD,DDD and CS (exam type questions) * Revision of SDD,DDD and CS (exam type questions) * Revision of SDD,DDD and CS (exam type questions) | Revision for Prelim |
| DEC |  | Prelim  During this time revision work can be attempted or practical work |  |
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| DEC | Web Design and Development Part 1 | * 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 Part 1 | * 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) |  |
| JAN | Web Design and Development Part 1 | * HTML Coding (Revision of S2 work on head,body, paragraph, img and lists) * Copyright Design and Patents Act * Prototyping( low fidelity ) |  |
| JAN | Web Design and Development Part 1 | * File formats including WAV, MP3 JPEG GIF and the need for compression * HTML Coding DIV Audio and Video |  |
| JAN | Trial Coursework | * SDD section only for a Practice SQA Assignment |  |
| FEB | Trial Coursework | * SDD section only for a Practice SQA Assignment |  |
| FEB | SQA Assignment | * SQA Assignment |  |
| FEB | SQA Assignment | * SQA Assignment |  |
| FEB | SQA Assignment | * SQA Assignment |  |
| MAR | SQA Assignment | * SQA Assignment (extra time and mop up for absences) |  |
| MAR | Web Design and Development Part 2 | * Javascript Onmouseover and Onmouseout * Superhero for Hire website * Superhero for Hire website |  |
| MAR | Web Design and Development Part 2 | * CSS (internal and external) * Selectors classes and IDs * Implementation of — text: font (family, size) color alignment background colour |  |
| MAR | Web Design and Development Part 2 | * 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 |  |
| APR |  | Past Paper Revision |  |
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