Year 10 Overview 2026-27 – *BTEC Tech Awards in Digital Information Technology*

KEY:
Component 1: Exploring user interface design principles and project planning techniques

Component 2: Collecting, Presenting and Interpreting Data

Component 3: Effective Digital Working Practices

Date	Wk	Week	Units Studied & Learning Outcomes	Key Concepts & Assessment
8 weeks (20 Lessons) (37 Days)				
Wed 2-Sep Tues Y7 only Thursday-whole school	A	1	• Overview of Unit/No. lessons **Component 1: Exploring User Interface Design Principles and Project Planning Techniques** **Guided Learning Hours (GLH): 36** **Supervised Hours (SH): 6** • Lesson **Sequence** of Content: GLH 2 – A1 User interfaces GLH 2 – A2 Audience needs GLH 4 – A3 & A4: Design principles / Designing an efficient user interface GLH 2 – B1 Project planning techniques GLH 2 – B2 Creating a project proposal and plan SH 3 – End of unit assessment • Unit Learning Outcomes: ➢ Understand interface design for individuals and organisation. ➢ Be able to use project planning techniques to plan, design and develop a user interface • Lesson **Sequence** of Content: GLH 4 – B3 Creating an initial design	• Foundational Concepts In this component, students will learn different project planning techniques that can be used to plan and deliver a project that meets a set of user requirements. Students will learn the different design principles that can be used to design effective user interfaces and apply appropriate project planning techniques to create a user interface that meets user requirements. • Key vocabulary user interface, text-based, speech, natural language, GUI, sensors, menu, performance, response time, usability, accessibility, storage, operating system, platform, screen size, touchscreen, keyboard, mouse, voice, gestures, processing, memory, emerging tech, audience needs, accessibility needs, skill level, demographics, design principles, colours, fonts, language, white space, layout, navigation, icons, input controls, perception, sound, symbols, visuals, attention, pop-ups, animation, help features, feedback, shortcuts, planning tools, Gantt chart, mood board, mindmap, waterfall, agile, proposal, requirements, constraints, milestones, storyboard, sketches, hardware, software, user confidence, development, review, strengths, weaknesses, improvements • Commentary ✓ Types of user interface. ✓ Range of uses and devices. ✓ Factors affecting the choice of user interface. ✓ Hardware and software influences. ✓ Accessibility needs / Skill level / Demographics ✓ Use of colours / Font style / Language / Amount of info / Layout / User perception / Retaining user attention / Intuitive design ✓ Project planning techniques ✓ Purpose and audience / Project requirements / Constraints / Timescales
7-Sep	B	2		
14-Sep (INSET Friday)	A	3		
21-Sep	B	4		
28-Sep	A	5		
5-Oct	B	6		
12-Oct	A	7		
19-Oct	B	8		
Half-Term			7 weeks (17-18 lessons) (35 Days)	
2-Nov	A	9	• Lesson **Sequence** of Content: GLH 8 – B4 Developing a user interface GLH 2 – C1 Review SH 3 – End of unit assessment • Unit Learning Outcomes:	• Commentary cont…. ✓ Initial design ✓ Strengths and weaknesses of the user interface ✓ Development of a user interface • **Assessment –** Set Assignment in Exam conditions Checklist of evidence required: ➢ Completed project proposal template
9-Nov	B	10		
16-Nov	A	11		

23-Nov	B	12	➢ Be able to use project planning techniques to plan, design and develop a user interface ➢ Be able to review a user interface Deadline for mark submission and upload of work of sampled learners for internal assessments	➢ Planning timescale ➢ Computer-generated designs for the four screens of the user interface ➢ Electronic copy of your prototype
30-Nov	A	13		
7-Dec	B	14		
14-Dec	A	15		
Christmas Holiday			6 weeks (15 lessons) (30 Days)	
4-Jan	B	16	• Overview of Unit/No. lessons **Component 2: Collecting, Presenting and Interpreting Data** **Guided Learning Hours (GLH): 36** **Supervised Hours (SH): 6** • Lesson **Sequence** of Content: GLH 2 – A1 Characteristics of data and information GLH 2 – A2 Representing information GLH 2 – A4 Data collection GLH 2 – A5 Quality of information GLH 2 – A6 Sectors that use data modelling GLH 2 – A7 Threats to individuals SH 1 – End of unit assessment • Unit Learning Outcomes: Understand how data is collected and used by organisations and its impact on individuals	• Foundational Concepts In this component, students will learn the different data manipulation tools that can be used to change the way that data is presented. Students will provide clear summaries of the data and present them in a dashboard that will allow organisations to make effective decisions. Students will learn the different presentation features that can be used to ensure that information is understood clearly in an objective way so that it is not misinterpreted. Students will develop your understanding of how to represent information in different ways to give it more meaning. • Key vocabulary data, information, structure, context, processing, meaning, unprocessed, text, numbers, tables, charts, graphs, sparklines, infographics, validation, range check, type check, presence check, length check, verification, proofreading, double entry, primary data, secondary data, interviews, questionnaires, surveys, websites, books, blogs, forums, sample size, sample method, reliability, accuracy, completeness, age, detail, format, volume, source, privacy, fraud, targeting, inaccuracy, data misuse, importing, formulae, functions, dashboard, totals, counts, averages, percentages, data summaries, tables, pivot tables, charts, sparklines, dynamic charts, buttons, combo boxes, checkboxes, dropdowns, font, merge cells, wrap text, borders, shading, graphics, axis labels, titles, trends, patterns, possible errors, bias, misinterpretation, inaccurate conclusions • Commentary ✓ Characteristics of data & information ✓ Different ways of representing information ✓ Validation & verification methods ✓ Data collection methods & features ✓ Quality of information factors ✓ Different types of data are used by organisations ✓ Threats that face individuals who have data stored about them
11-Jan	A	17		
18-Jan	B	18		
25-Jan	A	19		
1-Feb	B	20		
8-Feb	A	21		
Half-Term			5 weeks (12-13 lessons) (24Days)	
22-Feb	B	22	• Lesson **Sequence** of Content: GLH 6 – B1 Data processing methods	• Commentary cont.…

1-Mar	A	23	GLH 6 – B2 Producing a dashboard SH 2.5 – End of unit assessment • Unit Learning Outcomes: Be able to create a dashboard using data manipulation tools	✓ Data manipulation methods / advanced manipulation methods / other processing methods ✓ Showing data summaries ✓ Appropriate presentation methods ✓ Using appropriate presentation features
8-Mar	B	24		
15-Mar	A	ST1		
22-Mar finish on Thursday 25th	B	ST1		
Easter Holiday			7 weeks (17-18 lessons) (34 Days)	
12-Apr	A	ST1	• Lesson **Sequence** of Content: GLH 2 – C1 Drawing conclusions based on findings in the data GLH 2 – C2 How presentation affects understanding SH 2.5 – End of unit assessment • Unit Learning Outcomes: ➢ Be able draw conclusions and review data presentation methods Deadline for mark submission and upload of work of sampled learners for internal assessments	• Commentary cont…. ✓ Use a dataset and dashboard to present findings and draw conclusions ✓ Information being misinterpreted / biased ✓ Inaccurate conclusions being made • **Assessment –** Set Assignment in Exam conditions Checklist of evidence required: ➢ A word-processed report on the suitability of the data collection methods used within a given scenario ➢ Completed spreadsheet - use of data manipulation methods, and created dashboard ➢ A word-processed report with annotated screenshots that identifies trends, patterns and errors within a given data set. The report should also suggest ways to improve how the information is presented
19-Apr	B	28		
26-Apr	A	29		
3-May (Bank holiday Mon)	B	30		
10-May	A	31		
17-May	B	32		
24-May	A	33		
Half-Term			6 weeks (15 lessons) (29 Days)	
7-Jun	B	34	• Overview of Unit/No. lessons **Component 3: Effective Digital Working Practices** **Guided Learning Hours (GLH): 48** **External assessment** • Lesson **Sequence** of Content: GLH 4 – A1 Modern technologies GLH 2 – A2 Impact of modern technologies GLH 4 – B1 Threats to data GLH 4 – B2 Prevention and management of threats to data GLH 4 – B3 Policy	• Foundational Concepts In this component, students will learn about how organisations can use technology safely and about the cyber security issues when working in a digital organisation. • Key vocabulary ad hoc network, Wi-Fi, tethering, cloud storage, access rights, synchronisation, availability, scalability, cloud computing, collaboration, version control, platform selection, interface design, device sync, notifications, disaster recovery, data security, compatibility, software updates, performance, inclusivity, flexibility, remote working, communication, scheduling, accessibility, impact, infrastructure, legal, wellbeing, espionage, financial gain, hacking, malware, viruses, ransomware, phishing, social engineering, internal threats, data loss, downtime, legal action, access control, physical security, passwords,
14-Jun	A	35		

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<tr><td>21-Jun</td><td>B</td><td>36</td><td rowspan="4">• <u>Unit Learning Outcomes</u>:
➢ Demonstrate knowledge of facts, terms, processes and issues in relation to digital information technology
Make connections with the concepts, issues, terms and processes in digital information technology</td><td rowspan="4">biometrics, two-factor authentication, firewall, antivirus, device hardening, backups, encryption, ethical hacking, penetration testing, security policy, incident response

• Commentary
✓ Communication technologies
✓ Features and uses of cloud storage / cloud computing
✓ How the selection of platforms and services impacts on the use of cloud technologies
✓ How cloud and ‘traditional’ systems are used together
✓ Implications for organisations when choosing cloud technologies
✓ Changes to modern teams facilitated by modern technologies
✓ How modern technologies can be used to manage modern teams
✓ How organisations use modern technologies to communicate with stakeholders
✓ How modern technologies aid inclusivity and accessibility
✓ Positive and negative impacts of modern technologies on organisations / individuals
✓ Why systems are attacked
✓ External / internal threats to digital systems and data security
✓ Impact of security breach
✓ User access restriction / Data level protection
✓ Finding weaknesses and improving system security
✓ Defining responsibilities / security parameters
✓ Disaster recovery policy
✓ Actions to take after an attack

• Assessment – Informal assessment
Sample assessment materials will be available to help prepare learners for the formal assessment</td></tr>
<tr><td>28-Jun
(SJBF Inset)</td><td>A</td><td>37</td></tr>
<tr><td>5-Jul</td><td>B</td><td>38</td></tr>
<tr><td>12-Jul</td><td>A</td><td>39</td></tr>
<tr><td colspan="5">(Total: 190 Days)</td></tr>
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