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| **Year 10 and 11 ICT BTEC** | | |
| **Component 1: Exploring User Interface Design Principles and Project Planning Techniques** | **Component 2: Collecting, Presenting and Interpreting Data** | **Component 3: Effective Digital Working Practices** |
| In this unit students will be taught to understand interface design for individuals and Organisations. They will learn to use project planning techniques to plan, design and develop a user interface and consider how to review a user interface.  **Keywords for this Unit**  **LAA** – User Interface, Graphical User Interface (GUI), Windows/Icons/Menus/Pointer (WIMP), Embedded Systems, Operating System, Cognitive, Demographic, House Style, Input Controls, Dropdown Lists, Tick Boxes, Toggles, Navigational Components, Search Fields, Breadcrumbs, Icons, Predetermined, Intuitive.  **LAB** – SMART Aims/Objectives, Haptic, Contingency Planning, Storyboard.  **LAC** – Review, Trends, Anomalies, Misinterpreted, Biased, strengths and weaknesses Conclusions. | In this unit students will be taught how data is collected by organisations and its impact on individuals. They will create a digital dashboard using data manipulation tools and be taught to draw conclusions and review a range of data presentation methods.  **Keywords for this Unit**  **LAA** –Infographic, Validation, Range Check, Type Check, Lookup Check, Data Type Check, Presence Check, Length Check, Verification, Proofreading, Double Entry, Primary Data, Secondary Data, E-Commerce, Demographic.  **LAB** – Data Manipulation, Formulae, Decision-Making Functions – IF/WHATIF/SUMIF, Lookup Functions – VLOOKUP/HLOOKUP, String Operation Functions – LEFT/RIGHT, Count Functions – COUNTBLANK/COUNTIF, Logical Operators – NOT/AND/OR, Delimited, Absolute Cell Referencing, Relative Cell Referencing, Macros, Navigation, Data Validation, List Check, Type Check, Length Check, Dashboard, Cell, Conditional Formatting, Data Bars, Colour Scales, Icon Sets  **LAC** – Trends, Anomalies, Misinterpreted, Biased, Conclusions. | In this unit students will be taught how organisations use digital systems and the wider implications associated with their use.  **Keywords for this Unit**  **LAA** - Stakeholders, Ad Hoc, Tethering, Hotspot, Developing Countries, Developed Countries, Blackspots, Synchronisation, The Cloud, Scalability, Collaboration, Platforms, Policies, Compatibility, Maintenance, Responsiveness, Geographical, Facilitation, Inclusivity, Accessibility.  **LAB** - Mitigated, Cyber Security, Breaches, Industrial Espionage, Malware, Virus, Worms, Botnet, Rootkit, Trojan, Ransomware, Spyware, Denial of Service Attacks, Phishing, Pharming, Social Engineering, Shoulder Surfing, ‘Man-In-The-Middle’ Attacks, Disclosure, Biometrics, Two-Factor Authentication, Interface, Encryption, Ethical Hacking, Penetration Testing, Security Policies, Parameters, Backup, Disaster Recovery.  **LAC** - Legislation, location-based data, transactional data, cookies, data exchange, between services, auto power off, power-saving settings, hard copy, electronic distribution, ethical, Environmental, Net neutrality, scope, intellectual property, trademarks, patents, copyright. Notation, Conventions, Diagrammatical, Data Flow Diagrams, Flowcharts, System Diagrams. |