



#### Intent

At Oldbury Academy, ICT and Business Faculty we intend for students to learn, develop and recall the required knowledge and skills as outlined by the exam board specification. Whilst the key knowledge and skills will be embedded throughout the curriculum, students' learning will be established through practical examples of real life contexts and that of the local area. This intent aims at inspiring students to become independent learners and to achieve a level 3 qualification or move onto the world of Cyber security/IT

Students complete 3 components and develop spreadsheet skills and real life user interface software knowledge. The final component recalls on knowledge only and the learning that has taken place in Year 11

### What will I study?

See below

### How will I be assessed?

Students achieve BTEC tech grade: pass, merit or distinction.

Component 1 is coursework worth 30% of overall grade.

Component 2 is coursework worth 30% of overall grade.

Component 3 is an exam worth 40% of overall grade

#### What skills will I need?

The course is designed to encourage students to be independent thinkers and devise a solution to a problem in the form of a spreadsheet and a user interface. Skills used include: data analysis and interpretation, group work, individual research, planning and report writing, software specific skills. Students will make extensive use of IT and Google online facilities.

### What happens in lessons?

All of our lessons are varied

- Working as a group to discuss ideas
- Independent research activities
- Teacher led for software demonstration
- Taking part in visits relevant to Component 1





	Year 10	Year 11
Autumn	Overview Component 1 Exploring User Interface Design Principles and Project Planning Techniques Learning Aim A Investigate user interface design for individuals and organisations	Overview Component 2 (single lesson) Collecting, Presenting and Interpreting Data Learning Aim B Create a dashboard using data manipulation tools Learning Aim C Draw conclusions and review data presentation methods Component 3 (double) Effective Digital Working Practices
	Skills         Be able to analyse different user interfaces GUI, text, menu, form, sensor, speech,         How effectively the interface is used on:         • computers         • handheld devices         • domestic appliances	Skills Component 2 Import data Use spreadsheet tools to format, filter, manipulate and present data Make recommendations based on data Draw conclusions based on data Assess the effectiveness of the data
	<ul> <li>entertainment systems.</li> <li>The factors affecting the choice of user interface and how the user interface interacts for: <ul> <li>user requirements</li> <li>ease of use and accessibility</li> <li>performance/response time</li> <li>user experience.</li> </ul> </li> <li>The hardware and software used: <ul> <li>touch screen vs traditional displays</li> </ul> </li> </ul>	<ul> <li>Component 3</li> <li>LA – A</li> <li>Communication technologies, cloud storage and computing, using cloud technologies, inclusivity and accessibility, impacts of modern technology</li> <li>LA – B</li> <li>System attacks and external threats, internal threats, user restrictions, data level protection, policies, back ups and recovery,</li> <li>LA – C</li> <li>Shared data, environmental issues, equal access, acceptable use policies, data protection, criminal use of ICT.</li> </ul>



# Digital Information Technology Curriculum Intent/Overview



		<u>COMPUTING</u>
	<ul> <li>user input such as keyboard, voice, gestures , emerging</li> </ul>	Data and information flow diagrams, flowcharts, system
	technologies.	diagrams, tables and written information
	Assessments	Assessments
	WC 22nd Nov 21 – Hand out	WC 23 <sup>rd</sup> September – Hand out
	Submission – 13 <sup>th</sup> Jan 21	Submission 21 <sup>st</sup> October 2021
		Component 3 exam
		TBC
	Overview	Overview
	<b>Component 1</b> Exploring User Interface Design Principles and Project Planning	Component 3 (resits) Effective Digital Working Practices
	Techniques	Effective Digital working Plactices
	Learning Aim B	
	Use project planning techniques to plan and design a user	
	interface	
	Learning Aim C	
	Develop and review a user interface	
	Skills	Skills
	Project requirements:	Component 3 – Recap of skills
	The purpose of the user interfaces	LA – A Communication technologies, cloud storage and computing,
	Audience requirements and user accessibility requirements.	using cloud technologies, inclusivity and accessibility, impacts of
Carias		modern technology
Spring	Task list	LA – B
	PERT charts and critical path diagrams.	System attacks and external threats, internal threats, user
	Gantt chart	restrictions, data level protection, policies, back ups and recovery,
	timescales for task and sub-tasks with key milestones including	LA – C
	review points with users and when resources will be needed.	Shared data, environmental issues, equal access, acceptable use
	Mood boards/mindmaps.	policies, data protection, criminal use of ICT. LA – D Data and information flow diagrams, flowcharts, system diagrams, tables and written information
	Project constraints	
	contingency planning	
	Methodologies – Waterfall, Iterative	
	SMART aims/objectives	
	The strengths and weaknesses of user interfaces:	



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		-conroring
	How a user interface is easy to use and suitability for different	
	audiences and purpose	
	Testing of user interface	
	Assessments	Assessments
	Learning Aim B hand out 10 <sup>th</sup> February – Hand in 28 <sup>th</sup> February	Component 3 Exam - TBC
	Learning Aim C hand out 26 <sup>th</sup> March – Hand in 12 <sup>th</sup> April	
	Overview	
	Component 2	
	Collecting, Presenting and Interpreting Data	
	Learning Aim A - Investigate the role and impact of using data	
	on individuals and organisations.	
	Skills	
	The characteristics of data and information	
	The data collection methods and features used when collecting data	
	The quality of the data collected by companies and how this	
	impacts on decision making.	
Summer	The reliability and validity of the data	
Sammer	How data might be used by a company to make decisions.	
	You should then provide a comprehensive detailed assessment	
	of:	
	How the collection of data might affect the privacy of	
	customers.	
	Spreadsheet skills – formula, functions, graphs, charts, if	
	statements, conditional formatting, data dash boards,	
	formatting, filter, sort, macros Assessments	
	Hand out $- 06/06/2022$ Hand in $- 18/06/2022$	
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