Curriculum Map

Subject: BTEC IT Level 3

	Autumn – Year 12	Spring/Summer – Year 12
Content - WHAT will be learned? What previous learning can be linked? Why this order/ sequence ?	Management Information Systems. Students will be introduced to database theory (relational databases, DBMS, ERDs, referential integrity) in order to learn how to design and implement a database system for a given scenario.	Social Media Project Students will be researching how busine and advertise products.
	 RDBMS Relational Databases ERD Normalisation Table/Records/Fields Data Types Data Validation Input Masks Referential integrity Queries SQL Input Forms Reports Macros 	 Social networks Social medias Viral marketing Targeted marketing SEO Target Audience Copyright Legislation Creative Commons Licenses Data Protection Act & GDPR Presentation Software Gantt Chart
Skills- What will be developed?	 Students will learn how to use Microsoft Access to produce systems to manage data. They will be introduced to database theory (relational databases, DBMS, ERDs, referential integrity) They will learn how to produce robust systems by creating different types of objects. The databases will need to be suitable for purpose and audience. Students will learn how to produce user-friendly input forms and output reports. They will produce comprehensive test plans ensuring that data input fields are robust using validation methods to produce supportive outputs. 	Students will be researching how busine and advertise products. They are expect members of the local Chamber of Comm (speaker's notes, animations, use of whi presentation. Students will need to provide real-world well as identifying any flaws. Students will also be required to produce They will need to produce a series of pla questionnaires) which will support them media platforms. They will need to use social media sites evaluate the success of their content.
Key 'How'/'Why' Questions- What powerful knowledge will be gained? What areas/themes/concepts will be explored?	Most IT systems used in the industry rely on the use of a relational databases. It is essential to understand how data is stored in a relational database environment and to be able to manipulate, query, import and export data from an IT system.	Most businesses and organisations now audience and to advertise their products of social media platform can be a real as communication or business management
SEND - how will support be seen? Seating plans? Simplified questions?	 Structured lessons and resources KnowItAllNinja Homework Tasks Fortnightly homework task set on RDMS concepts 	 Structured lessons and resource Hands on approach where stude content and use analysis tools to
Assessment- What? Why?	Students are expected to be able to sit a 10-hour controlled assessment task in the first exam window. They will need to be able to confidently break down the scenario and apply techniques to the task.	Assessment of student's portfo
What memory for learning skills will be required- modelling? Concrete answers? Retrieval? Literacy- reading, extended accurate writing and oracy opportunities	 Teacher demonstrations Students practice Interleaving of key concepts, making connections between concepts covered in this unit at KS4. KnowItAllNinja Tasks 	 Teacher demonstrations Students practice Theory Concepts / Practical tas Communicating over a social network (clanguage to the target audience).
		Producing a report and a report on this

Key Stage 5

esses use social media to communicate with customers esses use social media to communicate with customers ted to create a presentation which would be delivered to nerce. They will need to use tools and software features nite space...) to produce an attractive and informative examples of businesses using social media effectively as ce a comprehensive social media campaign for a business. anning documentation (GANTT charts, post schedules and in implementing the campaign across different social to produce appropriate content and use analysis tools to rely on the use of social media to communicate with their ts/services. Understanding the potential and opportunities sset for anyone pursuing a career in marketing, nt ces dents use social media sites to produce appropriate to evaluate the success of their content. olio

sks/application

conventions, use of persuasive language, adapting the

unit

Numeracy/computing skills	 Storing numerical data in computer systems Data validation techniques 	 Analysing statistical information Representing data using charts
Character development	 Being resourceful and resilient when being exposed to challenging new concepts Being kind and considerate, helping other students, working as a team for problem solving. 	Improving communication skills i target audience when communic
Equality/Diversity opportunities	 Ethical discussion about how personal data can be stored and used in compliance with the DPA/GDPR regulation and the potential risks of misuse of personal data (e.g. discrimination) 	Identifying and reflecting on ster
Homework/Independent learning	 KnowItAllNinja Homework Tasks Fortnightly homework task set on RDMS concepts 	Students work on their coursework project the set deadlines
CIAG coverage/links	Careers in IT including: Database Administrator, Database Designer, Software Developer, App Developer	Careers in IT including: Web Designer, Dig Social Media Consultant

s in a professional context, taking into consideration the nicating on public platforms

tereotypes used in marketing

ject to meet the coursework assessment objectives within

Digital Marketing Specialist, SEO specialist, Web Author,

	Autumn – Year 13	Spring/Summer – Year 13
Content- WHAT will be learned? What	Information Systems	Website Design
previous learning can be linked? Why this	Students will build on their prior knowledge, from previous units on topics and learn about how IT systems	-
order/ sequence ?	are used in industry.	Students learns key web design and implem
		and apply them to design a website based o
	Topics include:	implement the website. This includes produ
	- Hardware	software, video editing software and produc
	- System Software	the various pages of the website
	- Application Software	
	- Moral/Ethical Issues	4.1 Internet/web
		4.2 Web address / LIBL / Domain name
	- Networking	4.2. Web address / OKE / Domain Ham
		4.5. Bandwidti / Download / Opload
	Protocolo	4.4. Web howcor
	- Protocols	4.5. Web blowsel
	- Security	4.0. Haluwale devices
		4.7. Client Brief / Purpose & Target Au
		4.8. Component of websites
		4.9. Responsive layout / wireframe De
		4.10. Moodboard
		4.11. Storyboarding
		4.12. Project Plan (Gantt Chart)
		4.13. Copyright laws / Creative common
		4.14. HTML / CSS / JavaScript
		4.15. Picture File formats (png, jpg, gif, i
		4.16. Video file format (mp3, mov, avi)
		4.17. Animated gif
		4.18. Picture File optimisation & File cor
		4.19. Resizing/Cropping picture files
		4.20. Embedding widgets
		4.21. Test plan
Skills- What will be developed?	Students will learn about the different technologies available to businesses and he able to identify and	They will initially produce a detailed report y
Skiis- what will be developed:	evaluate the use of benefits, drawbacks and risks of these technologies	a range of criteria (compatibility, accessibilit
	evaluate the use of, benefits, drawbacks and fisks of these technologies.	a range of cifteria (compatibility, accessibilit
		Students will also need to plan and create a
		Students will also need to plan and create a
		with a client. They will learn to communicat
		with a client. They will learn to communicate
		project în time.
		During the creation of the site students will
		produce a professional looking website. The
		with the structure and page layout. They will
		suitable for nurnose. This involves a thorous
Key 'How'/'Why' Questions- What powerful	Students will learn about the different technologies available to businesses and be able to identify and	Students develop their key knowledge of we
knowledge will be gained? What	evaluate the use of, benefits, drawbacks and risks of these technologies.	
areas/themes/concepts will be explored?		
SEND- how will support be seen? Seating	Structured lessons and resources	Structured lessons and resources
plans? Simplified auestions?	KnowltAllNinia Homework Tasks	Video Tutorials
	Exam Practice / Model Answers / Mark Schemes	
	RAG learning grid	
Assessment- What? Why?	Written Exam (2 hours)	Assessment of Students' Portfolios
socomene what why:		Assessment of Pre-production desire
	8	

mentation concepts. They research these concepts on a brief. They then develop their technical skills to lucing the relevant assets using graphic editing ucing the HTML, CSS and JavaScript code need to build

nes / IP Address

udience

esign

ons licenses / Source tables

, ico)

ompression

t which analyses how two websites compare based on lity, navigation, consistency...)

a website based on a given scenario. They will learn ther ideas and produce mock-ups which can be shared ate clearly and follow strict timescales to complete a

ill learn and combine HTML, CSS and JavaScript to ney may also decide to investigate using a CMS to help vill need to ensure the site is fully functional and ugh set of test plans across all page elements.

veb-design concepts as listed above.

signs

What memory for learning skills will be required- modelling? Concrete answers? Retrieval?	 Low stake assessment task Interleaving of key theory concepts Exam Practice / Model Answers / Mark Schemes 	Assessment of student's portfolio
Literacy - reading, extended accurate writing and oracy opportunities	 KnowItAllNinja Homework Tasks Exam Practice / Model Answers / Mark Schemes 	 Teacher demonstrations Students practice Theory Concepts / Practical tasks/
Numeracy/computing skills	Comparing hardware specification using the relevant units. (e.g. storage unit conversions)	Reviewing the key characteristics of resolution, colour depth, file size, of the size, of t
Character development	Getting organised and proactive when producing revision resources and strategies	Developing project management s (Analysis/Design/Implementation/
Equality/Diversity opportunities	 Discussion on the legal and ethical impacts of IT in society including use of personal data (Data Protection Act / GDPR), network security issues, use of AI and its impacts on jobs and working conditions, impacts of the digital divide in society. 	 Identifying and reflecting on stered
Homework/Independent learning	Using their knowitallninja.com account, students are producing revision materials (including mindmaps) on each chapter of the exam unit.	Students work on their coursework project within the set deadlines
CIAG coverage/links	Careers in IT and Business Management. Business Analyst, IT Project Manager, IT Trainer, IT Adviser/Consultant, IT Support/Technician, IT Maintenance	Careers in web design and development: W copywriter, web developer, App developer,

application

of assets (e.g. Graphic files and video clips) including compression rate.

skills around the lifespan of the project n/Testing/Evaluation

eotypes used in marketing

t to meet the coursework assessment objectives

Veb designer, graphic designer, web author, r, SEO specialist