L1/L2 Vocational ICT

Course Overview

- **Exam Board** – WJEC
- **Usual Age Range** – 14-16
- **Qualification** – equivalent to 1 GCSE
- **Curriculum Time** – Five 50 minute lessons per week in class plus additional independent work. This time will also include Careers Advice and Guidance sessions linked to Digital Technology roles as well as industry projects running throughout the year.
- **Assessment** – this curriculum is assessed via:
    - 1 x 1 hour 20 min onscreen examination
    - 1 x controlled assessment task to be completed under examination conditions within the classroom. 40 hours of lesson time will be allocated to the completion of this task. An assignment brief will be provided by WJEC which will include a scenario and several tasks for completion.
- **Grading** – L1 Pass – L2 Distinction *
- **Full specification** - https://www.wjec.co.uk/qualifications/level-1-2-vocational-award-in-ict/#tab_keydocuments

Curriculum Intent

The **intent** of the Vocational ICT curriculum is to give UTC students an opportunity to develop their understanding of the fundamental principles and concepts of working with computer systems along with practical business applications. The intent is to ensure students have useful knowledge, understanding and skills that can be applied in any Digital Technology setting in their future career.

The further intent of the Curriculum is to give students useful technical skills around business applications such as the ability to develop a Database, analyse data, produce well designed documents ensuring accuracy and links to other business applications.

Students are supported and encouraged to develop their **love of reading** and literacy skills on this course, by reading related ICT news and articles and by completing regular extended writing activities, along with evaluative documentation.

Students are encouraged to develop their **numeracy** on this course by applying the mathematical skills relevant to data analysis: including the use of mathematical equations within spreadsheets and database reports; graphs and charts.

Suggested next step **destinations** after completion include A Level Computer Science, Level 3 Technical IT or Extended Project Qualification.

Related **careers** include working as a data analyst; digital content producer; systems engineer; web marketing manager. This intent of the Curriculum is to also provide a good baseline knowledge, skills and understanding for students who undertake an Apprenticeship.

Remote Learning and Revision

Students will benefit from additional study of Computer Science GCSE Theory for the exam revision and also if they are absent from the UTC but well enough to complete remote learning. It is also helpful to practise Python coding regularly. Students can communicate with the teacher via Teams or via email if absent from school.

- Practice Assessments and papers - https://www.wjec.co.uk/qualifications/level-1-2-vocational-award-in-ict/#tab_keydocuments
- Spreadsheet tutorial - https://www.wikihow.com/Use-Excel
- Database tutorial - https://www.tutorialspoint.com/ms_access/index.htm
- Students can access all lesson materials on Google classroom along

Some other useful websites:

- Simply Teach - https://mysimplyteach.co.uk/key-stage-4/wjec-gcse-digital-technology/unit-1-the-digital-world

Curriculum Overview

The learning in Vocational ICT (*1 GCSE equivalent*) is sequenced as follows:

Note: the full Curriculum Plans are available on request to info@nef.tynecoast.academy

Key Topics

- Unit 1: ICT In Society
    - How IT can be used to fulfil the needs of organisations and individuals
    - How data and information is used and transferred
    - Legal, moral, ethical, cultural and environmental impacts of
    - IT and the need for cybersecurity
- Unit 2 ICT in context
    - Planning, creating, modifying and using databases
    - Planning, creating, modifying and using spreadsheets
    - Planning, creating and modifying an automated document
    - Planning, creating, manipulating and storing images

Year 10:

Half Term 1

- How IT can be used to fulfil the needs of organisations and individuals
    - Functionality of different hardware devices
    - Functionality of different software
    - Services provided by IT

Half Term 2

- How Data and Information is used and transferred
    - How data and information is used and transferred
    - How data transfers over different types of network
    - Different types of connectivity

Half Term 3

- How Data and Information is used and transferred
    - Different types of connectivity
- Legal, moral, ethical, cultural and environmental impacts of IT and the need for cybersecurity
    - Risks to information held on computers
    - The impact of data loss, theft or manipulation on individuals and businesses

Half term 4

- Legal, moral, ethical, cultural and environmental impacts of IT and the need for cybersecurity
    - Methods used to protect information
    - How moral and ethical issues affect computer user
    - How legal issues protect computer users
    - The cultural, personal and environmental impact of ICT
    - How a digital footprint can impact computer users

Half Term 5

- Legal, moral, ethical, cultural and environmental impacts of IT and the need for cybersecurity
    - The cultural, personal and environmental impact of ICT
    - How a digital footprint can impact computer users

Half Term 6

- Revision for mock exams

Throughout the year

Skills needed for the coursework which will be undertaken in year 11.

Year 11:

Half Term 1

- Planning, creating, manipulating and storing images
    - Planning and designing an image
    - Creating and modifying an image using appropriate tools and techniques
    - Storing the image appropriately and outputting the final image in a format that is fit for purpose

Half Term 2

- Planning, creating, modifying and using databases
    - Planning and designing a database
    - Creating and modifying a database
    - Interrogating a database
    - Creating user interfaces
    - Testing and evaluating a database

Half Term 3

- Planning, creating, modifying and using spreadsheets
    - Planning and designing a spreadsheet
    - Creating and formatting a spreadsheet
    - Use of appropriate data formatting and adding suitable validation rules
    - Use of appropriate formulae and functions to meet set outcomes
    - Arranging, reducing and outputting data to help make decisions
    - Modifying data and formulae to model 'what if' scenarios
    - Testing and evaluating spreadsheets

Half term 4

- Planning, creating and modifying an automated document
    - Planning and designing an automated document
    - Creating an effectively structured data source and linking this to a standard document
    - Appropriately structuring the content of the standard document and inserting fields as required
    - Merging and outputting final documents

Half Term 5

- Revision and exam preparation

Half Term 6

- External examination period