

<b>Subject</b>	<b>BTEC Digital Information Technology</b>
<b>Paper</b>	Computer 3: Effective Digital Working Practices
<b>Work/skills/activities being covered in lesson leading to exams</b>	<p><b><u>Week 1 – Modern Technologies</u></b></p> <p><b>Communication Technologies:</b></p> <ul style="list-style-type: none"> <li>• How to set up networks like Wi-Fi hotspots and sharing data between devices.</li> <li>• Why open Wi-Fi can be risky for your safety.</li> <li>• Problems that come with using these types of networks, like slow speeds.</li> <li>• Issues that affect network connection: Country differences, rural vs. city areas, and lack of coverage in some places.</li> </ul> <p><b>Cloud Computing:</b></p> <ul style="list-style-type: none"> <li>• What cloud computing is (using the internet for apps and data).</li> <li>• Why it's important to keep versions of files the same for everyone using them.</li> <li>• Working together on a single file at the same time.</li> <li>• Tools that help you collaborate online.</li> </ul> <p><b><u>Week 2 – Features of Cloud Computing and Storage</u></b></p> <p><b>Cloud Storage Features:</b></p> <ul style="list-style-type: none"> <li>• How to set who can see and edit your files in the cloud.</li> <li>• How to keep your files synced across all your devices.</li> <li>• Cloud storage lets you access your files anytime, anywhere.</li> <li>• You can get more storage when needed without needing extra equipment.</li> </ul> <p><b>Cloud Computing Features:</b></p> <ul style="list-style-type: none"> <li>• Using online apps to do things like work or study.</li> <li>• Keeping everyone's file versions the same.</li> <li>• Working on the same file together.</li> <li>• Tools that help you work with others from a distance.</li> </ul>

### **Week 3 – Online Platforms**

#### **Choosing Platforms for Cloud Technologies:**

- How picking the right platform can affect the features you get.
- Free tools vs. paid tools.
- How the platform looks (e.g., simple layout, mobile-friendly).
- Using it on different devices (phones, tablets, laptops).

### **Week 4 – Modern Teams**

#### **How Technology Changes the Way Teams Work:**

- Teams can now work together from anywhere in the world.
- Teams can have people from different countries, cultures, and backgrounds.
- Teams can work any time of the day or night, no matter where they are.
- More flexibility with work – working from home or in the office.

### **Week 5 – Impact of Modern Technologies on Organisations**

#### **How Modern Tech Affects Companies:**

- How companies need special equipment and platforms to run smoothly.
- Keeping everything running smoothly with the right tech.
- Making sure data is secure even when it's spread out.
- Giving everyone equal chances to work and be included, no matter their background.
- Remote work and the legal rules companies need to follow.

### **Week 6 – Threats to Data**

#### **Why Hackers Attack:**

- Sometimes it's just for fun or challenge.
- Some hackers do it to steal information or money.
- Some hackers attack to cause disruption or hurt others.

### **Types of Cyber Threats:**

- Hackers trying to access your systems illegally.
- Malicious software like viruses and ransomware that mess with your data.
- Cyber attacks that overwhelm your system (like DDoS).
- Phishing, social engineering, and sneaky ways to steal your info.

### **Week 7 – Prevention and Management of Threats**

#### **Protecting Data:**

- Limiting who can access data with passwords, biometrics, or special tools.
- Using software like firewalls and anti-virus tools to keep bad stuff out.
- Backing up data to prevent loss and keeping it safe with encryption.
- Ensuring data is kept safe when it's being transferred.

### **Week 8 – Policy**

#### **Setting Rules for Security:**

- Who is in charge of what when it comes to security.
- What employees should and shouldn't do with company devices and data.
- Making sure data gets backed up and recovered in case something goes wrong.

### **Week 9 – The Wider Implications of Digital Systems**

#### **Shared Data:**

- Benefits and risks of sharing data between apps and services.
- Why it's important to use data responsibly and protect people's privacy.
- The environmental impact of technology, from making it to throwing it away.
- How to be mindful of saving energy when using tech and upgrading devices.

	<p><b><u>Week 10 – Legal and Ethical</u></b></p> <p><b>Equal Access to Services and Information:</b></p> <ul style="list-style-type: none"> <li>• Why it's important to make sure everyone can access the same services and information.</li> <li>• Laws and guidelines that require equal access to online services.</li> <li>• Acceptable Use Policies: Rules that tell you how you should and shouldn't use tech, how it's monitored, and what happens if you break the rules/</li> </ul>
<p><b>Areas to revise as a priority leading to exams</b></p>	<p><b><u>Modern Technologies</u></b></p> <ul style="list-style-type: none"> <li>• Cloud computing: benefits, drawbacks, and impact on individuals/businesses.</li> <li>• Virtual teams and remote working: advantages and challenges.</li> <li>• Communication technologies: email, instant messaging, video conferencing, VoIP.</li> <li>• Collaborative tools: online document sharing, version control.</li> </ul> <p><b><u>Cyber Security</u></b></p> <ul style="list-style-type: none"> <li>• <b>Threats:</b> phishing, malware, hacking, social engineering, weak passwords.</li> <li>• <b>Prevention Measures:</b> firewalls, anti-malware, encryption, authentication methods.</li> <li>• <b>Data protection:</b> importance of strong passwords, multi-factor authentication.</li> </ul> <p><b><u>The Impact of Digital Systems on Individuals and Organisations</u></b></p> <ul style="list-style-type: none"> <li>• Efficiency and productivity: how digital systems improve workflow.</li> <li>• Digital devices in the workplace: advantages and disadvantages.</li> <li>• Legal and ethical considerations: GDPR, copyright laws, acceptable use policies.</li> <li>• Sustainability: environmental impact of digital systems, e-waste, energy consumption.</li> </ul> <p><b><u>Planning and Communication in Digital Systems</u></b></p> <ul style="list-style-type: none"> <li>• <b>Project planning tools:</b> Gantt charts, PERT charts, critical path analysis.</li> <li>• <b>Data presentation:</b> choosing the right data visualisation methods.</li> </ul>

	<ul style="list-style-type: none"><li>• <b>Effective communication:</b> audience needs, presentation methods (reports, slides, infographics).</li><li>• <b>Workplace practices:</b> file management, version control, backups, accessibility considerations.</li></ul>
<b>Suggested methods of revision</b>	<ul style="list-style-type: none"><li>• Mind maps</li><li>• Past Papers – within folders, green panned</li><li>• <u>Know it all ninja website</u></li><li>• Mock questions – within folders, green panned</li><li>• Flashcards for key terminology</li><li>• Revision books and same questions / answers.</li><li>• Complete revision clocks to check knowledge and fill in any gaps of unknown content. Prioritise spending time revising the unknown content</li><li>• Going over past mocks and notes work</li><li>• Use of resources on Teams, e.g. lesson slides and video support links</li><li>• Seneca</li></ul>