

IT



Palma College

SIXTH FORM

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Unit 1 The way we live and work in today's society

- Digital technologies: what they are, how they work together, and how they enable our digital world
- Critically assessing the value and impact of new technologies
- Networks: enabling communication, collaboration, and secure communication
- The internet as a network; the world wide web as a collection of information
- Cloud storage, cloud computing and online communities: how they enable working and sharing information
- Data as a valuable asset: maintaining and manipulating data to provide relevant and accurate information

Assessment: Two hour written examination

Unit 2 Websites, social media and apps

- Innovation and development of ways to access information and interact with the web
- Best practices in writing code for the web: HTML and CSS
- Coding and programming languages combining to create effective user experiences
- JavaScript: interactivity and responsiveness
- Creating well-structured, semantic web pages with JavaScript to provide better user experience

Assessment: Three hour practical examination with computer

Unit 3 Organisations and IT systems

- Role of IT systems in supporting finance, customer management and logistics
- Ensuring systems are suitable, operational and maintained
- Issues: use policies, changeover, risk management and maintenance
- Project management skills: targets, measuring progress, evaluating success
- Approaches: waterfall method and generalised agile approach
- Emerging technologies: machine learning, VR/AR, Internet of Things; their implementation and impact

Assessment: Two hour written examination

Unit 4 Databases and problem solving

- Practical tasks using database tools with structured questions
- Relational databases: solving problems in different contexts (education, commerce, etc.)
- How user needs affect database requirements
- Database design informed by user needs and skills; impact on final solution

Assessment: Three hour practical examination with computer

