

A Level Information Communications Technology

Exam Board: CIE

This is an A Level course taken over two years.

The A Level Information Communications Technology qualification will inspire and challenge students to apply the knowledge they gain with the creative and technical skills they acquire. In a world where Information Communications Technology (ICT) is constantly changing, individuals increasingly need technological and information literacy skills that include the ability to gather, process and manipulate data. The impact of ICT on society is enormous and as the percentage of businesses and households connected to communication networks such as the internet grows, so does the need for individuals who understand these new technologies. This course encourages learners to become effective and discerning users of ICT. It helps them to develop a broad range of ICT skills, knowledge and understanding. The course covers the structure and use of IT systems within a wide range of organisations, including the use of a variety of computer networks. As a result, students gain an understanding of ICT system life cycles, and how these affect the workplace. They also learn about the wider impact of ICT on society in general.

The course aims to:

- Develop a broad range of IT skills
- Develop an understanding of the parts, use and applications of IT systems within a range of organisations, including the use of basic computer networks
- Develop an understanding of how IT systems affect society in general
- Develop an understanding of the main systems life cycle and apply this understanding to workplace situations
- Develop a broad knowledge of the use of IT in workplace situations
- Develop an understanding of project management skills
- Be aware of new and emerging technologies
- Be aware of the role of the internet and its potential but also its risks
- Apply their knowledge and understanding of IT to solve problems



A Level Course Content

1. Data, information, knowledge and processing
2. Hardware and software
3. Monitoring and control
4. E-safety and health and safety
5. The digital divide
6. Using networks
7. Expert systems
8. Spreadsheets
9. Database and file concepts
10. Sound and video
11. Emerging technologies
12. Role and impact of IT in society
13. Networks
14. Project management
15. System life cycle
16. Graphics creation
17. Animation
18. Mail merge
19. Programming for the web

