

TAS Faculty

Information and Software Technology Years 9 and 10



AIM

People can expect to work and live in environments requiring highly developed levels of computing and technological literacy. Current technologies are becoming obsolete at a rapid rate and new generations will need to be flexible to accommodate changes as they emerge. It is important that students learn about, choose and use appropriate information and software technology and develop an informed awareness of its capacities, scope, limitations and implications. Technological competence in the rapidly evolving area of information and software technology will require lifelong learning.

The study of Information and Software Technology Years 7–10 assists students to develop the knowledge, understanding and skills to solve problems in real life contexts. Through experiential and collaborative tasks, students engage in processes of analysing, designing, producing, testing, documenting, implementing and evaluating information and software technology-based solutions. Creative, critical and meta-cognitive thinking skills are developed through students' practical involvement in projects.

COURSE CONTENT

Core topics

- 1. Design, produce and evaluate
- 2. Past, current and emerging technologies
- 3. Data handling
- 4. Hardware
- 5. Issues—legal, ethical, social, industrial
- 6. People
- 7. Software—systems, application, interface design

Option Topics

- 1. Artificial intelligence, simulation and
- modeling
- 2. Authoring and multimedia
- Database design
 Digital media
- 5. The internet and website development
- 6. Networking systems
- 7. Robotics and automated systems
- 8. Software development and programming

ASSESSMENT

The following methods are used to assess student's in the course:

- Class exercises
- Presentations
- Home work
- Assignments
- Group projects
- Individual projects
- Topic tests









RESOURCES AVAILABLE FOR THIS COURSE:

- Desktop computers
- Internet access to school curriculum server
- Wireless internet access to DET Laptops
- Digital formats of the text book on the school network
- Text books

For more information please visit the website below on the internet or talk to the TAS teachers

http://www.nesa.nsw.edu.au/syllabus_sc/ industrial-technology.html

TECHNOLOGY AND APPLIED STUDIES INDUSTRIAL ARTS

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