



Information Technology Learning Area

Victorian Certificate of Education

APPLIED COMPUTING

Study Design 2020 – 2024

Information Technology Faculty



VCE Applied Computing

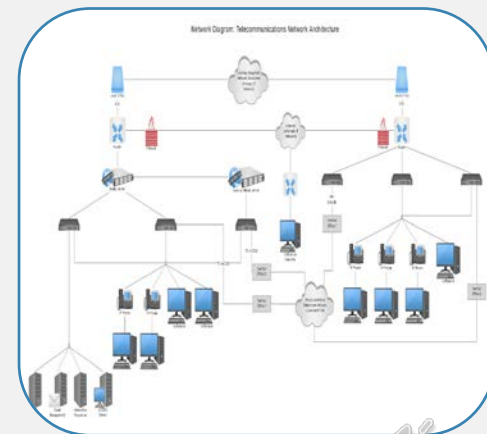
Unit 1 and 2

Overview:

VCE Applied Computing focuses on the strategies and techniques for creating digital solutions to meet specific needs and to manage the threats to data, information and software security.

Topics covered:

- Introduced to the stages of the **problem-solving methodology**
- How data can be used within software tools such as databases and spreadsheets to create **data visualisations**
- The use of **programming languages to develop working software solutions** such as Python
- **Develop innovative solutions** to needs or opportunities **that students identify**
- Propose strategies for reducing security risks to data and information in a networked environment (**cybersecurity**).



VCE Applied Computing

Unit 3 and 4 : Software Development



Overview:

The focus is on the application of a problem-solving methodology and the underlying skills to create purpose-designed solutions using a programming language.

Topics covered:

- Respond to teacher-provided solution requirements and designs and **develop a set of working modules through the use of a programming language** such as Python.
- Analyse a need or opportunity, select an appropriate development model, **plan, design, develop and evaluate your own software solution** for a 'client'.
- Examine the security practices of an organisation and the risks to software and data during the development and use of the software solutions (**cybersecurity**).



VET

Certificate III in Screen and Media

Overview:

The focus is on providing students with a pathway to a variety of creative industries. Units 3 and 4 offers scored assessment and incorporates units such as 2D digital animations, writing content for a range of media, authoring interactive sequences and creating visual design components.

Topics covered:

- Work Effectively in Creative Arts
- Produce and Prepare Photo Images
- Maintain Interactive Content
- Follow a Design Process
- Create Visual Design Components
- Create 2D Digital Animations
- Author Interactive Sequences
- Write Content for a Range of Media



Careers in Computing to name just a few...



Websites

- Developer
- Administrator
- Content Developer
- Graphic Designer

Databases

- Administrator
- Analyst
- Developer

Computer

- Applications Engineer
- Programmer
- Systems Analyst
- Systems Technician
- Hardware Engineer
- Analyst Programmer
- Network Administrator
- Helpdesk Administrator
- Helpdesk Operator

Information

- Designer
- Service Manager
- Systems Engineer
- Systems Technician/Consultant
- Document Specialist
- Content Developer
- Chief Information Officer

