**COMPUTING**

VCE Computing provides students with practical opportunities to create digital solutions for real-world problems in a range of settings, developing an essential tool set for current and future learning, work and social endeavours. All students should aim to further develop their skills in using computer based technology and this is a very fun and interesting way to do it.

This subject is available to all students in Years 10 to 12.

**Unit 1: Computing**

This is a very hands on computer unit where most of time class time is used to develop skills in a number of software programs. This unit focuses on how data, information and networked digital systems can be used to meet a range of users’ current and future needs.

1. Data and graphic solutions
2. Computer Networks
3. Collaboration and communication

**Unit 2: Computing**

Again, this is a very hands on computer unit where most of time class time is used to further develop skills in a number of software programs. This unit focuses on data and how the application of computational, design and systems thinking skills support the creation of solutions that automate the processing of data.

1. Programming
2. Data analysis and visualisation
3. Data management

There are two different Computing subjects for students at the Unit 3/4 level

UNITS 3 AND 4: SOFTWARE DEVELOPMENT

This elective of computing is suited to students who enjoy or want to learn the art of computer programming. Students focus on the application of a problem-solving methodology and underlying skills to create purpose-designed solutions using a programming language.

Unit 3:

1. Programming practice
2. Analysis and design

Unit 4:

1. Software Solutions

2. Interactions and impact

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UNITS 3 AND 4: INFORMATICS

In this elective students focus on data, information and information systems. In Unit 3 students consider data and how it is acquired, managed, manipulated and interpreted to meet a range of needs. In Unit 4 students focus on strategies and techniques for manipulating, managing and securing data and information to meet a range of needs.

Unit 3:

1. Organisations and data management
2. Data analytics: drawing conclusions

Unit 4:

1. Data analytics: presenting the findings
2. Information management