VCE UNITS INFORMATION

VCE Computing Units 1 and 2

CONTENT

Unit 1

In Unit 1, you will focus on how data, information and networked digital systems can be used to meet a range of users' current and future needs. You will undertake learning experiences in collecting primary data when investigating an issue, practice or event and create a digital solution that graphically presents the findings of the investigation. You will be examining the technical underpinnings of wireless and mobile networks, and security controls to protect stored and transmitted data, to design a network solution that meets an identified need or opportunity. You will be required to predict the impact on users if the network solution were implemented. Finally, you will acquire and apply their knowledge of information architecture and user interfaces, together with web authoring skills, when creating a website to present different viewpoints on a contemporary issue.

Unit 2

In Unit 2, you will focus on data and how the application of computational, design and systems thinking skills support the creation of solutions which automate the processing of data. You will develop your computational thinking skills when using a programming or scripting language to create solutions. You will engage in the design and development stages of the problem-solving methodology. You will develop a sound understanding of data and how a range of software tools can be used to extract data from large repositories and manipulate it to create visualisations that are clear, usable and attractive, and reduce the complexity of data. Finally, you will apply all stages of the problem-solving methodology to create a solution using database management software and explain how they are personally affected by their interactions with a database system.

OUTCOMES

Unit 1

- Students should be able to acquire, secure and interpret data, and design and develop a graphic solution that communicates the findings of an investigation
- Students should be able to design a network with wireless capability that meets an identified need or opportunity, explain its configuration and predict risks and benefits for intended users
- Students should be able to design and develop a website collaboratively with others that presents an analysis of a contemporary issue and the team's point of view on the issue