	Stage 5 Information and Soft	ware Technology			
	Unit 2: Digital media (C	Option 4)			
Title: MYFM radio station					
	Duration: 15 weeks Sequence: Week 6	Term 2 – Week 10 Term 3			
Project overview	MYFM radio station  Present a fifteen minute radio segment for your FM station. Include:  original music compilation converted music file to mp3 format pre-record news broadcast audio advertisement.  Present and publish a poster advertising the radio station. Include: mediated images using <i>Photoshop</i> etc.				
Outcomes	5.2.1, 5.2.2, 5.2.3, 5.3.1, 5.3.2, 5.5.1, 5.5.2, 5.5.3, 5.4.1, 5.1.1				
Assessment outcomes	A student: 5.3.2 acquires and manipulates data and information in an ethical manner 5.5.1 applies collaborative work practices to complete tasks 5.1.1 selects and justifies the application of appropriate software programs to a range of tasks.				
Core	Students learn about:	Students learn to:			
	Design, produce and evaluate  Evaluation criteria  • functionality of solution  • quality of information such as:  - accuracy - relevance - integrity - timeliness  • ethics • environment	<ul> <li>establish criteria for the evaluation of solutions</li> <li>evaluate solutions using established criteria</li> </ul>			

Core	Students learn about:	Students learn to:
	Methods of evaluation  individual groups such as peer, end user, specific target group	<ul> <li>use feedback evaluation in order to modify solutions</li> <li>reflect upon and document feedback</li> </ul>
	Past, current and emerging technologies	
	<ul> <li>Environmental considerations such as</li> <li>disposal of obsolete technologies</li> <li>recycling</li> </ul>	<ul> <li>assess the effects of past, current and emerging information and software technologies on the individual, society and the environment in the context of the chosen options.</li> </ul>
	Data handling	
	Data forms	
	<ul><li>analogue</li><li>digital</li></ul>	convert data between analogue and digital forms
	Hardware	
	Hardware solutions	
	<ul> <li>Developing hardware solutions:</li> <li>defining the problem</li> <li>designing a solution</li> <li>evaluating a solution</li> </ul>	<ul> <li>apply an approach to develop hardware solutions</li> <li>apply set criteria to choose the most appropriate hardware solution</li> <li>select and use hardware to solve a problem</li> <li>evaluate the suitability of hardware devices for particular solutions</li> </ul>
	Troubleshooting	identify simple operating faults using a computer manual
	Working through hardware problems	<ul> <li>perform safe troubleshooting procedures when dealing with hardware problems</li> </ul>
	Issues	
	<ul> <li>Legal issues such as</li> <li>copyright and/or licensing</li> <li>piracy</li> <li>intellectual property</li> <li>security and protection including viruses</li> <li>legislation such as Anti-discrimination, Equal Employment Opportunity, Occupational Health and Safety</li> </ul>	examine legal issues as they apply to the development of information and software technology solutions

Core	Students learn about:	Students learn to:
	Ethical issues such as  code of practice and conduct privacy and security inappropriate use including hacking accuracy, validity and bias of data  Social issues such as the changing nature of work and enterprise such as employment, telecommuting, virtual office, video conferencing equity, access and control for all users with respect to gender, disability, and culture including Aboriginal and Indigenous	<ul> <li>research and report on ethical issues relating to the development of information and software technology solutions</li> <li>identify the ethical responsibilities of software users</li> <li>examine and judge the accuracy, validity and bias of data and information</li> <li>contrast the nature of work in the information and software technology industry, past and present</li> <li>examine and discuss equity and cultural inclusiveness in the information and software technology industry</li> <li>explore the impact of cybercultures on perceptions of gender</li> </ul>
	Features and elements of a graphical user interface (GUI) such as  • radio buttons, list boxes • borders and white space • instructions to the user • inclusive design factors	evaluate the effectiveness of GUI features and elements for a specific purpose

Option 4: Digital media	The purpose of digital media such as	<ul> <li>define digital media</li> <li>assess the effectiveness of a range of digital media products</li> <li>describe a range of digital media</li> <li>select and use appropriate file formats for the digital media product</li> </ul>
	Students learn about:	Students learn to:
	Data types for digital media products such as  used in specific digital media products  Manipulation techniques such as cropping, rendering, special effects, time coding, sampling morphing, tweening	<ul> <li>recognise and select data types used in digital media products</li> <li>produce samples of work for a range of data types</li> <li>describe how date types combine to produce and enhance a digital media product</li> <li>manipulate data types for specific digital media products</li> </ul>
	<ul> <li>Digitisation process of data types such as</li> <li>frame grabbing</li> <li>scanning</li> <li>bit mapping</li> <li>optical character recognition (OCR)</li> </ul>	<ul> <li>explain the digitisation process for a selected data type</li> <li>digitise selected data types using appropriate hardware</li> </ul>