



Stage 5 Information and Software Technology

Unit 5: Authoring and multimedia (Option 2)

Unit title: Major project

Duration: 15 weeks **Sequence:** Term 3 – Week 5 Term 4

Project overview	Individual negotiated major project.	
Outcomes	5.2.1, 5.2.2, 5.2.3, 5.3.1, 5.3.2, 5.5.1, 5.5.2, 5.2.3	
Assessment outcomes	A student: 5.2.1 describes and applies problem-solving processes when creating solutions 5.2.2 designs, produces and evaluates appropriate solutions to a range of challenging problems 5.2.3 critically analyses decision-making processes in a range of information and software solutions 5.5.2 communicates ideas, processes and solutions to a targeted audience	
Core	Students learn about:	Students learn to:
	Design, produce and evaluate Defining and analysing the problem <ul style="list-style-type: none">• identification of need or problem to be solved• factors that impact on problem solving:<ul style="list-style-type: none">– technical such as hardware– operational– financial– ethical Designing possible solutions using techniques such as <ul style="list-style-type: none">• concept mapping• brainstorming• prototyping	<ul style="list-style-type: none">• identify the need or problem to be solved• analyse the problem and a range of possible solutions• generate ideas using a range of methods• apply set criteria to choose the most appropriate software solution• develop a storyboard of ideas and/or solutions• summarise research data when generating creative solutions



	Students learn about:	Students learn to:
	<ul style="list-style-type: none">• storyboarding <p>Producing solutions</p> <ul style="list-style-type: none">• producing the solution <p>Evaluation criteria</p> <ul style="list-style-type: none">• functionality of solution• quality of information such as:<ul style="list-style-type: none">– accuracy– relevance– integrity– timeliness• ethics• environment <p>Methods of evaluation</p> <ul style="list-style-type: none">• individual• groups such as peer, end user, specific target group <p>Management</p> <ul style="list-style-type: none">• planning• resources, such as:<ul style="list-style-type: none">– time– finances– people <p>Communication techniques, including</p> <ul style="list-style-type: none">• verbal• written• graphical and visual	<ul style="list-style-type: none">• evaluate the suitability of solutions by testing and experimenting• examine, evaluate and modify existing solutions <ul style="list-style-type: none">• develop and implement the stages involved in the completion of a solution• apply set criteria to choose the most appropriate solution <ul style="list-style-type: none">• establish criteria for the evaluation of solutions• evaluate solutions using established criteria <ul style="list-style-type: none">• use feedback evaluation in order to modify solutions• reflect upon and document feedback <ul style="list-style-type: none">• apply management plans and techniques <ul style="list-style-type: none">• document decision-making and problem-solving in the development of solutions• outline a range of communication techniques appropriate to the solution• communicate ideas, processes and solutions to a targeted audience



	Students learn about:	Students learn to:
	Collaboration and group work <ul style="list-style-type: none">• criteria for group formation such as expertise and group dynamics• roles and responsibilities of group members• effective collaboration strategies	<ul style="list-style-type: none">• identify and negotiate roles and responsibilities of group members• establish and use strategies for effective collaboration• outline and reflect on the benefits/advantages of collaboration during group work• evaluate individual and group contributions to the project• apply collaborative work practices when developing solutions
	People Careers in information and software technology <ul style="list-style-type: none">• career paths	<ul style="list-style-type: none">• discuss the use of information technology skills across industry and for self-employment
Option 2: Authoring and multimedia	Project development <ul style="list-style-type: none">• processes and techniques• GUI design for the multimedia product• design principles including layout and balance of data types Additional content <ul style="list-style-type: none">• innovation in a selected data type such as animation	<ul style="list-style-type: none">• design, produce and evaluate a simple project for a real-world application either separately for this option, or integrated with other option/s• apply interface design features used for the production of the multimedia product• examine and analyse design principles used in a range of multimedia products• create a storyboard and script• research in detail a data type and produce an original product