

## DIGITAL TECHNOLOGY

STATUS:	ELECTIVE SUBJECT	
COURSE OVERVIEW:	<p>Digital Technologies provides students with practical opportunities to use design thinking and to be innovative developers of digital solutions and knowledge.</p> <p>The subject helps students to become innovative creators of digital solutions, effective users of digital systems and critical consumers of information conveyed by digital systems.</p> <p>Digital Technologies provides students with authentic learning challenges that foster curiosity, confidence, persistence, innovation, creativity, respect and cooperation.</p> <p>These are all necessary when using and developing information systems to make sense of complex ideas and relationships in all areas of learning. Digital Technologies helps students to be regional and global citizens capable of actively and ethically communicating and collaborating.</p>	
COURSE OUTLINE:	<p>In this subject students will undertake a range of modules relating to the development of advanced skills in:</p> <ul style="list-style-type: none"> <li>• Web design (HTML–CSS)</li> <li>• LEGO robotics rescue mission (EV3)</li> <li>• SPHERO robotics escape the maze (Blocks and JavaScript)</li> <li>• Game design (Flash)</li> </ul> <p>These skills will be developed and applied within the context of the local and college community.</p>	
COURSE ASSESSMENT:	<p>Term 1: Product - client based - website design            Term 2: Product - problem based - prototype robot design and code            Term 3: Product - problem based - code a SPHERO to escape the maze            Term 4: Flash game - client based - game design</p>	
STUDY REQUIREMENTS:	Computer-based assessment to be completed in class and at home.	
SPECIAL REQUIREMENTS:	Students who enroll in this course <u>must have access to a laptop every lesson</u> for classwork and assessment.	
POSSIBLE CAREER PATHWAYS:	Computer Analyst Computer Programmer Graphic Designer ICT Help Desk Computer Technician Database Developer	Telecommunications Officer Web Developer Engineer Networking analyst Software Developer Game Designer
PARENT/CARER SUPPORT:	Monitor completion of homework and assessment.	