Industrial Design and Technology

Junior units of study Years 7 – 10					
Year	Subject		Duration		
level 7	Design and Technology	Students investigate, design, produce and evaluate a functional item for a purpose using sustainable or recycled timber.	1 term		
9	Industrial Technology and Design ITD	Product design and manufacture. Students develop their design, problem solving, decision making, task	Semester 1		
9	Industrial Technology and Design ITD	management, creative and practical skills through technology challenges using timber materials.	Semester 2		
9	Engineering Technology and Design ETD	Students manage projects independently and collaboratively from conception to realisation. They apply design and systems thinking and design	Semester 1		
9	Engineering Technology and Design ETD	processes to investigate ideas, generate designs, plan, produce and evaluate designed solutions using a range of STEM initiatives and materials.	Semester 2		
9	Graphic Design	Communicating via drawing, graphical communication techniques, sketching and the introduction of computer aided drafting and 3D printing modelling. Introducing STEM strategies.	Semester 1 & 2		
10	Industrial Technology and Design ITD	Foundation workshop skills: Furniture design and technology usage to process and produce designed furniture.	Semester 1 only		
10	Engineering Technology and Design ETD	Students develop an understanding of real world product design and production processes using a range a STEM initiatives and materials. Students solve real world engineering problems and apply engineering design concepts.	Semester 1 only		
10	Graphic Design	Students draft sketches, working drawings and 3D representations that enable the construction of built environment structures. Drawings are used to communicate details to clients.	Semester 1 only		

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Preparatory subjects Year 10 Semester 2					
10	Design	Design focuses on the application of design thinking to envisage creative products, services and environments	General		
10	Industrial Graphic Skills	in response to human needs, wants and opportunities. Industrial Graphics Skills focuses on the underpinning industry practices and production processes required to produce the technical drawings used in a variety of industries, including building and construction, engineering and furnishing.	Applied		
10	Furnishing Skills	Furnishing Skills focuses on the underpinning industry practices and production processes required to manufacture furnishing products with high aesthetic qualities.	Applied		
10	Engineering Pathways	Engineering Boot camp and the introduction to the Certificate II in Engineering Pathways program.	VET		

Senior subjects Year 11 and 12				
Design	Studying Design can lead to: architecture digital media design fashion design graphic design industrial design interior design landscape architecture	General		
Industrial Graphics Skills	Studying Industrial Graphics Skills can lead to: • roles and trades in the manufacturing industries. • focus areas include industrial design, architecture and furniture manufacturing industries	Applied		
Furnishing Skills	 Studying Furnishing can lead to: furnishing trades such as furniture-maker, wood machinist, cabinet-maker, polisher, shopfitter, upholsterer, furniture restorer, picture framer, floor finisher or glazier. 	Applied		
Engineering Pathways MEM20413 Certificate II in Engineering Pathways	Learning engineering skills through Motorsport. Students build a race car from the ground up engaging in real life industry focussed learning. Students develop a familiarity with the engineering discourse, from the language used, to the processes and methods.	VET (External RTO – Formula Student)		