



Course Outline Options 2019

Design & Technologies Semester 1

Course Description	Within the framework of the course, students will aim to develop the knowledge, understandings and skills to ensure they, individually and collaboratively, investigate, design, plan, manage, create and evaluate solutions.		
		Skills Projects	Two Main Projects of Students Choice
Learning Outcomes	<ul style="list-style-type: none"> • Understands and implements safe working habits and procedures • Demonstrates understanding of technical terminology • Successfully implements the design process • Evaluates own work against set criteria • Follows directions to complete projects • Demonstrates skills in the use of equipment • Investigate how digital systems function • Design and create digital solutions to solve real world problems 	To teach the students the basic hand skills to operate hand and power tools safely in the workshop	
Work Practice Outcomes	<ul style="list-style-type: none"> • Works independently • Works cooperatively • Completes all set tasks 		

Assessment Items		<ul style="list-style-type: none"> • Class work • Tests • Portfolio of class work 	Projects		
Place of Learning		WAGIN DISTRICT HIGH SCHOOL	Semester 1		
			Working with various materials to create different projects	Portfolio	Projects
Knowledge and understanding Year			Links to the Curriculum		
Technologies and society	Social, ethical and sustainability considerations that impact on designed solutions Development of products, services and environments, with consideration of economic, environmental and social sustainability		X	X	X
Technologies contexts	Students will have opportunities to create designed solutions in at least one of the technologies contexts below		X	X	
Engineering principles and systems	The characteristics and properties of materials, combined with force, motion and energy, to create solutions		X	X	
Materials and technologies specialisation	Characteristics and properties of materials, systems, components, tools and equipment used to create designed solutions Technologies can be combined and used to create designed solutions		X	X	X

Processes and production skills				
Investigating and defining	Identify and define the needs of a stakeholder, to create a brief, for a solution Investigate a selection of components/resources to develop solution ideas, identifying and considering constraints	X	X	X
Designing	Apply design thinking, creativity and enterprise skills Design solutions assessing alternative designs against given criteria, using appropriate technical terms and technology	X	X	X
Producing and implementing	Select, and safely implement and test appropriate technologies and processes, to make solutions	X	X	X
Evaluating	Evaluate design processes and solutions against student-developed criteria	X	X	X
Collaborating and managing	Work independently, and collaboratively to manage projects, using digital technology and an iterative and collaborative approach. Considers time, cost, risk and safety	X	X	X

Materials Required

HB pencil, pen and display folder

Typical Homework

Completion of related theory or worksheets not completed during class time. Research Assignment.

Assessment Items

Due Date

Percentage

• Practical project 1.	Week 5	15%
• Practical project 2.	Week 10	15%
• Research Project.	Week 14	20%
• Practical project 3.	Week 19	20%
• Portfolio	Week 19	20%
• OH&S	Ongoing	5%
• Literacy and numeracy tasks	Ongoing	5%