Onsite



Wearable Technology

Industry Alignment

Students will be exposed to technologies and processes used in:

• Electronics

• Precision Manufacturing

• Programming

Curriculum Areas Covered																				
	Tech				English		Arts					Humanities				Capabilities				
Science	Design & Technologies	Digital Technologies	Mathematics	Health & Physical Education	English	EAL	Dance	Drama	Media Arts	Music	Visual Arts	Visual Comm & Design	Civics & Citizenship	Economics & Business	Geography	History	Critical & Creative Thinking	Ethical	Intercultural	Personal & Social

Student Work





Duration

This program can be undertaken on consecutive days or spread over a term. 2 days at Yarra Ranges Tech School.

Curriculum Level

This program is suitable for students from level 7 to level 10.



Using the knowledge gained, and working in teams, students design, test and prototype different ideas for wearable technology to address a user's need.

Key Learning Objectives

- wearable technologies
- wearables
- creating prototypes
- wearable technologies

Technologies Introduced

Students will develop knowledge and skills in:

- Sensor Design •
- Coding •
- Electronics •
- **3D** Printing •

Students are introduced to electronics, programming and precision manufacturing techniques.

• To gain an understanding of Human-Centred design of

• Utilize computer-aided design software for designing

• Utilize different precision manufacturing techniques for

• To understand electronics and their application to

• To understand how electronics can be coupled with precision manufactured items

• 3D Computer-Aided Design Software



Structure of the two days - Day 1

Structure of the two days - Day 2



Please note: Teachers are expected to assist with the program and technology throughout the day. Optional professional development is offered for both technologies and the Human Centred Design Thinking process.





Pitch - Presentation Pack up & survey



Depart