

## iTECH at St Johns

The St John's iTECH program will prepare students for the adult world of learning and work. It will focus on the following: design thinking, computational thinking and systems thinking as the base for deeper learning. The course will facilitate building confidence in creative skills, problem solving, and a growth mindset towards entrepreneurship and prototyping for innovation. Student projects will be enabled using emerging and ubiquitous technologies, the design cycle and entrepreneurship skills.

### KEY FEATURES

The key features of the program structure include:

- Project-based learning
- 50-hour units
- Field studies connecting with the community including experts and professionals.
- Industry workplace projects (senior level)
- Senior student projects that allow students to research and explore their interests and passions.
- Formal presentation and exhibition of student work
- Assessment (we are working on potential QCE points)

YEAR LEVEL	7	8	9	10	11	12
	Test & 1 x Project	Test & 1 x Project	CSIRO workshop + 1 x Project	CSIRO/Industry related workshop + 1 x Project (50 hrs)	CSIRO/Industry related workshop + 2 x Project (50 hrs)	CSIRO/Industry related workshop + 1 x Capstone Project (50 hrs)

### TIMELINE

YEAR	TERM	YEAR LEVELS					
		7	8	9	10	11	12
2021	1	DiT	DiT	✓			
	2	DiT	DiT	✓			
	3	DiT	DiT	✓			
	4	DiT	DiT	✓			
2022	1	✓	✓	✓	✓		
	2	✓	✓	✓	✓		
	3	✓	✓	✓	✓		
	4	✓	✓	✓	✓	✓	✓
2023	1	✓	✓	✓	✓	✓	✓
	2	✓	✓	✓	✓	✓	✓
	3	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓

### PARTNERSHIP

I am currently working on formalising a partnership with CSIRO and St Johns. The meetings I have had with their team, have been very positive and have resulted in a plan that includes the following two main aspects of the senior iTECH program: workshops and course work curriculum content. To begin with, we are focussing on AI and the use of emerging technologies. St Johns will be the first school in Australia with such a partnership with them. They currently have the funding for the workshops starting in Term 4, 2021. However, since I initiated their curriculum involvement recently, which we all are very excited about, the CSIRO team is now in the process of applying for funding for our main curriculum initiative too. A successful trial also has the potential to be a model for the Department of Education. Further detail will be provided as we progress.

### REQUEST

I humbly request for more non-contact time to research, plan, develop, and implement new and innovative programs/initiatives for the college. Teaching four classes is an impediment to its progress. Thank you.