



Advanced Manufacturing

"Helter-Skelter Shelter"

Design and build flat-pack accommodation using
Advanced Manufacturing.

Advanced Manufacturing

"Helter-Skelter Shelter"

Design and build flat-pack accommodation using Advanced Manufacturing.

Duration

2 Days

9:30 am – 2:30 pm

Learning Program Overview

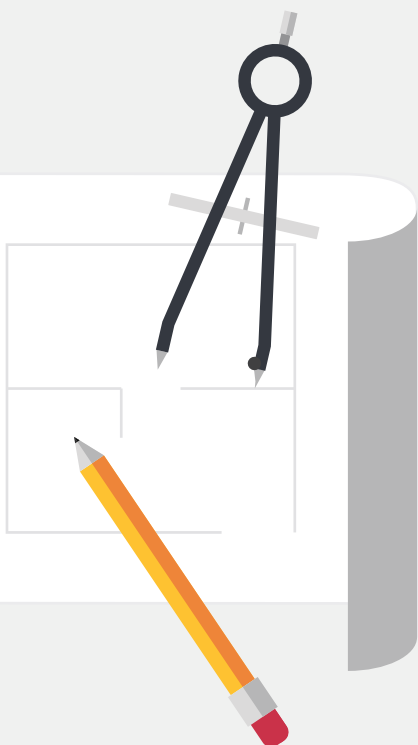
Working in groups, students will investigate material sustainability, human-centred design of living spaces, the mathematics of polyhedrons, flat-pack design, and more! They will develop "persona profiles" to aid in their empathy and understanding of how various accommodation issues affects real people. Utilising the Design Thinking process for problem solving and their newfound technical abilities in digital design for subtractive manufacturing equipment, students will create original solutions to common problems. Ultimately, each team will pitch their solution to the room and receive feedback.

Students are equipped with knowledge of processes to enable them to work collaboratively to solve a real problem. This program is student-directed and encourages discovery of real issues affecting Bendigo and the other Australian communities. The program is structured and facilitated with an emphasis on learning by hands-on processes and trial and error testing.

Learning Program Timeline

DAY 1: Empathise + Define + Ideate + Prototype – students learn and apply the design process in groups, activate empathy through research and lived experience, discuss potential solutions, then prototype physically and digitally. Solutions are tested and revised. Responsibilities are distributed amongst group members, and prototyping continues.

DAY 2: Prototype + Test + Pitch – Further refinement of prototype solution, communication methods for pitching established, groups pitch solution and developmental process taken, feedback, reflection.



Success Criteria

- Problem must address each group's chosen stakeholder requirements.
- Work with other group members to create a collaborative and innovative solution.
- Consider emerging technological trends and futureproofing.
- Communicate ideas during pitch and demonstrate evidence of understanding audience psychology.

Outcomes - School Links

VCAL

- Personal Development Skills – personal development (self), community engagement, social awareness, civic and civil responsibility.
- Numeracy Skills – numeracy for interpreting society.
- Literacy Skills – reading, writing and oral communication.

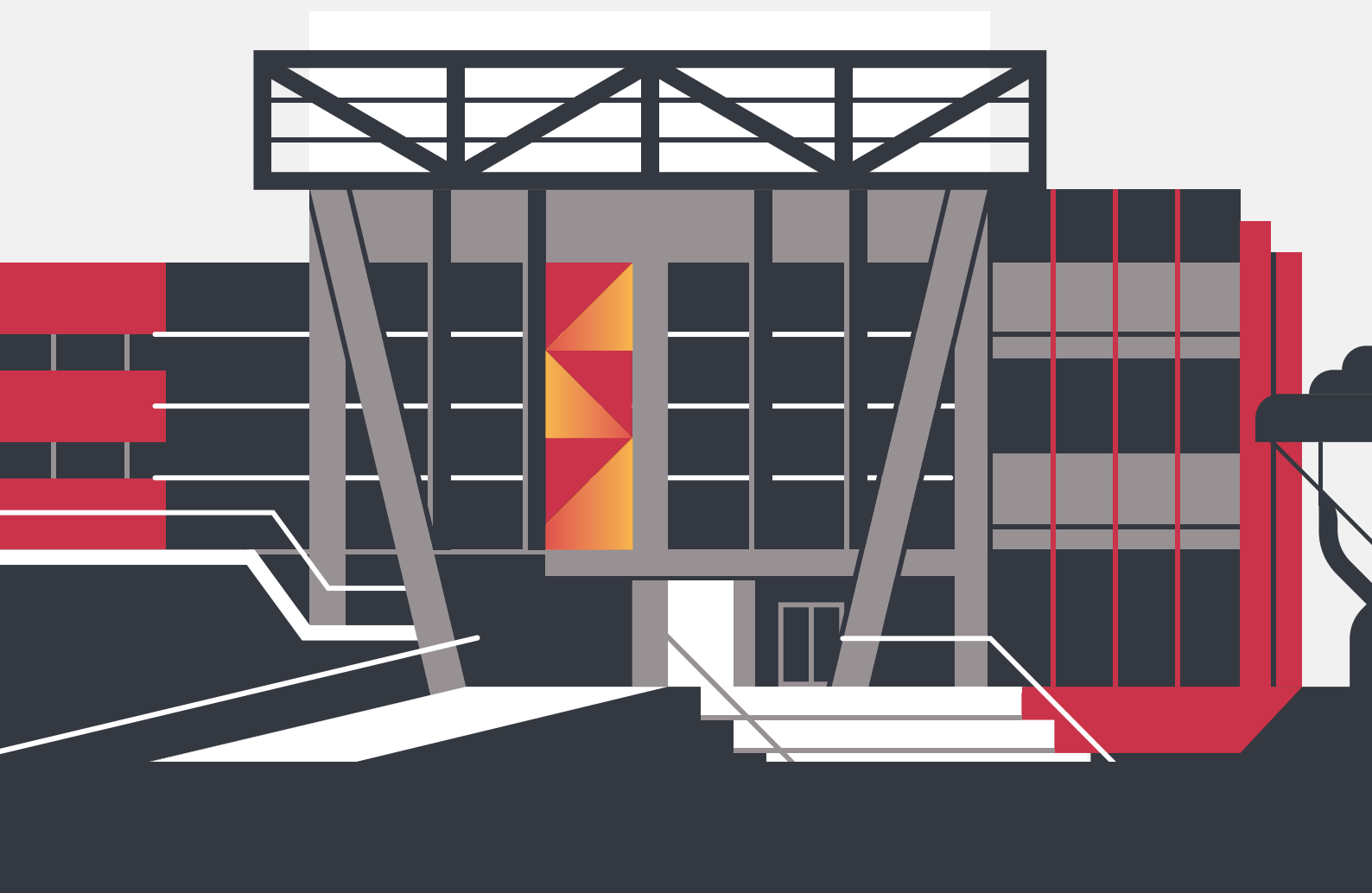
Make a Booking

Website: bendigotechschool.vic.edu.au/programs

Email: bendigotechschool@latrobe.edu.au

Phone: 03 5444 7113

BENDIGO
TECH
SCHOOL



Make a Booking

Website: www.bendigotechschool.vic.edu.au/programs

Email: bendigotechschool@latrobe.edu.au

Phone: 03 5444 7113