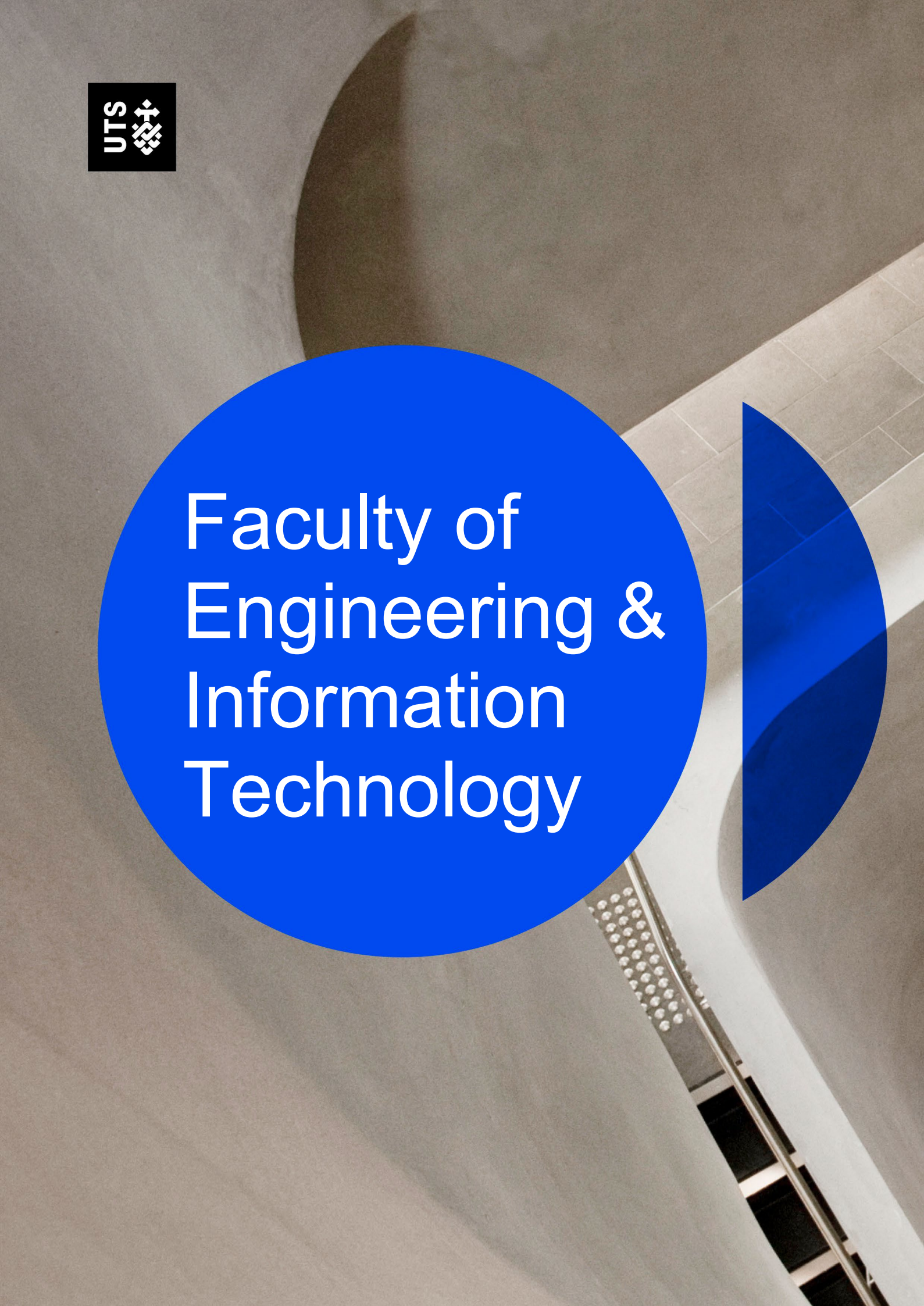
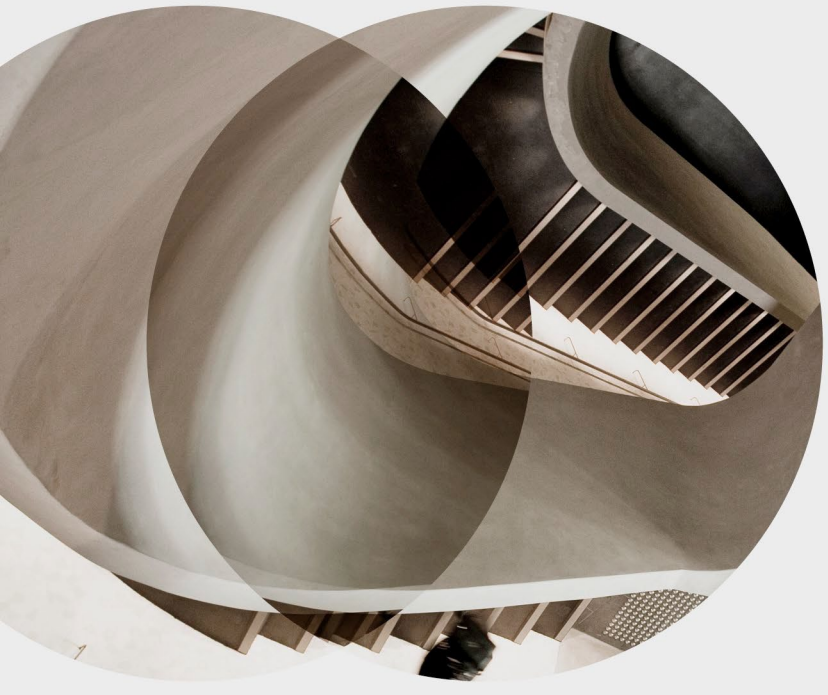
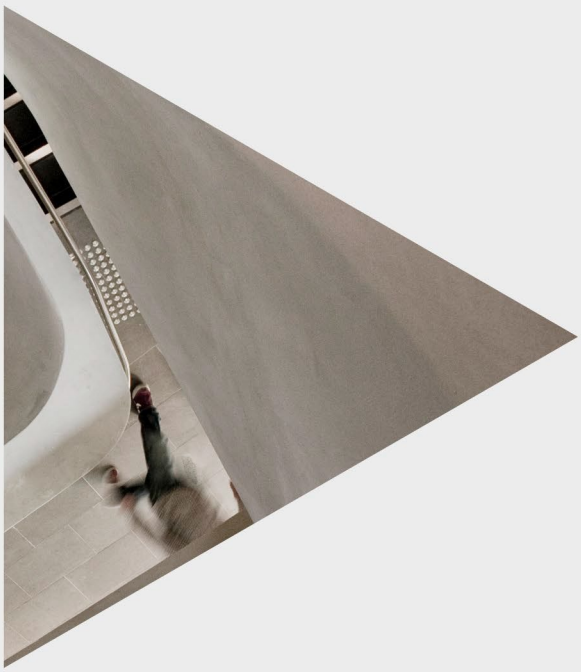


Faculty of Engineering & Information Technology

Capstone Showcase Student Guide





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1 Introduction to Capstone Showcase

Eligible students enrolled in 41030 Engineering Capstone will participate in a shortlisting process to be organised by their respective schools in week 9. Shortlisted students will be invited to participate in the Faculty level Capstone Showcase. For Autumn 2024 the Capstone Showcase will be held in StuVac after week 12.

The Capstone Showcase is an exhibition style event and will be attended by industry representatives, students and UTS Engineering Staff.

Shortlisted students will present their project at the Capstone Showcase, in a manner that best suits their work. They are encouraged to invite their industry supervisors, mentors, colleagues, parents, fellow students, and friends. A table and a display board will be provided on the day.

In week 10, shortlisted students are required to submit to Academic Supervisor a 250-300 word abstract of their project and an electronic copy of a poster that will be used at the showcase. The abstract must be reviewed and approved by the student's Academic Supervisor before submission. This is to ensure it encapsulates the essence of the project. Students that do not comply with these requirements may be excluded from the Capstone Showcase.

An email, detailing when and where to submit the final version of the abstract and poster will be issued to shortlisted students closer to the day. An announcement of the same will also be posted on UTS Canvas.

Academic Supervisors of shortlisted students will be required to attend the Showcase, evaluate student's work and provide feedback that could be incorporated in the final report. Feedback will also be provided by the industry partners, academics and peers.

Examples of what students could use to showcase their project:

1. Engineering Model or Prototype (Please note, due to the size of the venue, availability of electrical power etc, we will not be able to support any special set up requirements. In case your project has special set up needs, we encourage you to prepare a video)
2. Poster (softcopy) – COMPULSORY
3. 2 to 3 minute video
4. 2 to 3 minute Power Point Presentation

Detail plan for the day is prepared in week 10 & 11 and communicated a few days before the Showcase Day. Refer to the UTS Canvas for further details.

A show reel of previous Capstone Showcases can be viewed here.

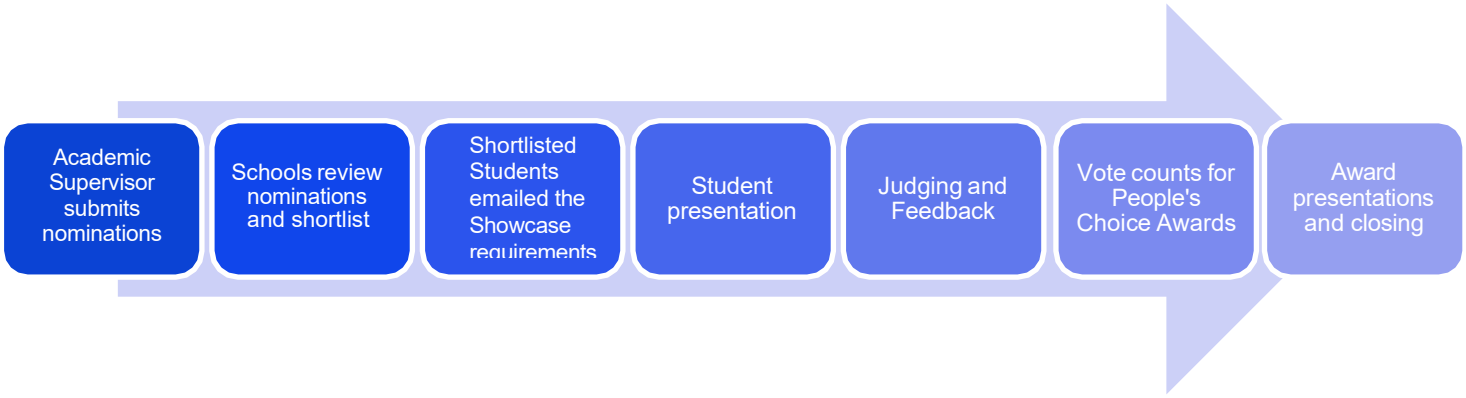
1.1 Can I participate?

Students working on projects which are covered by a confidentiality agreement will NOT be invited to present at the showcase. In case you have been invited to present at the Capstone Showcase but are undertaking a confidential project, please inform us by sending an email to FEITCapstone@uts.edu.au.

1.2 Library Collection

Shortlisted students' final report may be kept within the library collection of capstone projects for future students' reference.

2 Overview of Capstone Showcase



2.1 Showcase Timeline

Week 6

- Discuss nomination potential with Academic Supervisor

Week 8

- Academic Supervisor nominate students for
  - A student may be nominated for more than one award
  - See list of available awards under section 3
- Showcase requirements issued via email to shortlisted students;
  - event details, Program for the day
  - an announcement will also be posted on UTS Canvas.

Week 9

- Shortlisted students:
  - submits approved project abstract and all other required documents.
  - prepare for Capstone Showcase:
  - will be notified of submission requirements & deadlines.

Week 10

- Shortlisted students prepare for Capstone Showcase:

Week 12

- Shortlisted students prepare for Capstone Showcase
- Event details, Program for the day, instructions sheets will be issued to:
  - Shortlisted students
  - Academic Judges
  - Industry Judges

StuVac

- Showcase Week
- Shortlisted students finalise preparations for exhibition.
- On the day of the showcase
  - Follow instructions per the instruction sheet provided.
  - Arrive early to set up stalls and presentation.

Note: Students who unable to satisfy the showcase and submission deadline may be excluded.

3 Awards

3.1 Alan Chappel Award for Engineering Innovation

The Alan Chappel Award for Engineering Innovation is a very prestigious award which is presented to one student who's Capstone Project embodies an innovation deemed by a selection panel, to have the greatest potential for commercial development.

The Prize was created to honour Alan Chappel on his retirement from the Faculty's Industry Advisory Network (IAN) and to recognise outstanding and innovative achievement in an engineering Capstone Project. Alan Chappel is an expert in tunnel design and construction and was the NSW Manager of Connell Wagner until his retirement. He was one of the founding members of the IAN and a generous supporter of the Faculty.

The schools nominate students for this award from amongst the students shortlisted to participate in the capstone showcase. Nominated students are required to present at the Capstone Showcase for which they are judged for this award by a panel comprising of at least one industry judge and one UTS academics.

The award value of $800 will be presented on the day of the Capstone Showcase with a certificate to follow once the awardee is known.

3.1.1 Award criteria

- Innovation
- Potential for commercialization
- Invention / Originality

3.1.2 Who are the judges?

- Industry judges and
- Academics judges invited for the showcase.

3.1.3 Award value and prize payment method

- $800 via bank transfer post event (winner will be contacted by us)

3.2 Best Poster Award

The best poster award recognises one best poster presented at the showcase. It rewards a combination of excellent content, structure, and visual presentation. The schools nominate students for this award from amongst the students shortlisted to participate in the capstone showcase. Nominated students are required to present at the Capstone Showcase for which they are judged for this award by a panel comprising of at least one industry judge and one UTS academics.

The award will be presented on the day of the Capstone Showcase with a certificate to follow once the awardee is known.

3.2.1 Award criteria

The Best Poster Award is evaluated based on content, structure and visual presentation.

3.2.2 Who are the judges?

- Industry judge and
- Academic judge invited for the showcase.

3.2.3 Award value and prize payment method

- $500 gift voucher on the day

3.3 Judges' Choice Award

The Judges Choice Award is presented to one student who has undertaken a project which has impressed and inspired the judges the most on a personal level. The student may have done something involving great effort, interesting and worthy of recognition. The schools nominate students for this award from amongst the students shortlisted to participate in the capstone showcase. The nominated students for this award will be required to present at the Capstone Showcase and they are judged for this award by a panel comprising of at least one industry judge and one UTS academics.

The award will be presented on the day of the Capstone Showcase with a certificate to follow once the awardee is known.

3.3.1 Award criteria

Overall quality of project, student understanding and effort. Project impresses and inspires the judges the most on a personal level. The student may have done something involving great effort, interesting and worthy of recognition.

3.3.2 Who are the judges?

- Industry judge and
- Academic judge invited for the showcase.
-

3.3.3 Award value and prize payment method

- $500 gift voucher on the day

3.4 UTS Rapido Future Innovator Award

The UTS Rapido Future Innovator award aims to acknowledge and reward a final year capstone student who demonstrates exceptional innovation, professional excellence, and a high potential for industry and societal impact through their project. The award serves not only as recognition for the student's hard work and talent but also to encourage innovative thinking and the pursuit of practical solutions that can positively impact the world.

3.4.1 Award criteria

- Excellence in Design and Build
- Professional Excellence
- Likelihood to Impact Industry and/or Society

3.4.2 Who are the judges?

- Industry judge and
- Academic judges invited for the showcase.

3.4.3 Award value and prize payment method

- $500 gift voucher on the day

3.5 UTS - IEEE Award

The UTS-IEEE - a student-run organization affiliated with the Institute of Electrical and Electronics Engineers, recognises one project with potential for commercialization.

3.5.1 Award criteria

- Potential for commercialization

3.5.2 Who are the judges?

- Industry judge and
- Academic judges invited for the showcase.

3.5.3 Award value and prize payment method

- $200 via bank transfer post event (winner will be contacted by us)

3.6 UTS Engineering and IT for Good

The UTS Engineering and IT for Good award aims to acknowledge and reward one student whose project demonstrates social impact innovation, environmental sustainability, community engagement and empowerment and ethical design and responsible innovation.

3.6.1 Award criteria

- Social Impact Innovation
- Environmental Sustainability
- Community Engagement and Empowerment
- Ethical Design and Responsible Innovation

3.6.2 Who are the judges?

- Industry judge and
- Academic judges invited for the showcase.

3.6.3 Award value and prize payment method

- $500 gift voucher on the day

3.7 People's Choice Award for Best Exhibit

The People's Choice Award for Best Exhibit is presented to a student whose exhibit is voted as the best on the Capstone Showcase Day. This award encourages and rewards excellence in engineering communication and the importance and need of engineers to be able to communicate their technical ideas, concepts and projects in a manner that can be easily understood by an audience that may not have their level of technical expertise and at the same time not losing their content. The award will be presented on the day of the Capstone Showcase with a certificate to follow once the awardee is known.

3.7.1 Award criteria

The People's Choice Award for best project/exhibit (based on voting on the day), rewards excellence in Engineering Communication. Student is able to communicate their technical ideas, concepts and project in a manner that can be easily understood by an audience that may not have their level of technical expertise and at the same time not losing their content. The award is decided on the basis of voting that happens on the Capstone Showcase Day and all shortlisted students participating in the capstone showcase are eligible for this award.

3.7.2 Who votes?

- Industry judges
- Academics (including academic supervisors) and staff
- Students presenting on the day (students cannot vote for themselves)

3.7.3 Award value and prize payment method

- $500 gift voucher on the day