Holsworthy High School

Engineering Studies

TAS Faculty

AIM

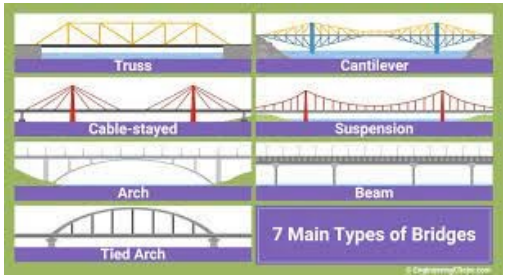
Both Preliminary and HSC courses offer students knowledge, understanding and skills in aspects of engineering that include communication, engineering mechanics/ hydraulics, engineering materials, historical/ societal influences, engineering electricity/ electronics, and the scope of the profession. Students study engineering by investigating a range of applications and fields of engineering.

POST-SCHOOL OPPORTUNITIES

Engineering Studies seeks to raise students' awareness between engineering. society and the environment and to develop their ability to make value judgements about issues, decisions and problems arising from this interaction. Students achieve this by applying practical experiences to the study of engineering. The study of Engineering Studies Stage 6 provides students with knowledge, understanding and skills that form a valuable foundation for a range of courses at university and other tertiary institutions.

The knowledge and skills developed in this course can be applied across a range of career pathways. Including but not limited to Agriculture, Forestry and Fishing, Construction, Electricity, Gas, Water and Waste Services, Manufacturing, Mining.

In addition, the study of Industrial Technology Stage 6 assists students to prepare for employment and full and Active Participation as Citizens.



CORE TOPICS

- Engineering Fundamentals
- Engineered Products
- Braking Systems
- Biomedical Engineering
- Civil Structures
- Personal and Public Transport
- Aeronautical Engineering
- Telecommunications Engineering

Note:
There is no prerequisite to studying Engineering Studies Stage 6.

Products is a CATEGORY A subject.

Students are required to produce one engineering report from either of the two engineering application modules, and one from either of the two engineering focus modules.

One engineering report from the Preliminary course and one engineering report from the HSC course must be the result of collaborative work, reflecting the importance of teamwork for successful engineering projects .

ASSESSMENT

The following methods are used to assess students in the course:

Both the Preliminary and HSC courses are organised around four modules. From those four modules, students will be required to produce four engineering reports in total across both years as well as examination style assessments.

TECHNOLOGY AND APPLIED STUDIES INDUSTRIAL ARTS

Ms B. Harvey - Head Teacher (Relieving)
Mr D. Topping Mr M. O'Brien