4.

Engineering Studies

The aim of the Engineering Studies Stage 6 Syllabus is to develop students' understanding and appreciation of the nature, significance and methodology of engineering and its impact on society.

5.

Career Opportunities

The Engineering Studies Stage 6 Syllabus provides a context within which to develop general competencies considered essential for the acquisition of effective, higher-order thinking skills necessary for further education, work and everyday life.

Related Subjects

Related subjects include:

- Mathematics
- Physics
- Chemistry
- Design and Technology
- Industrial Technology.

Engineering Studies

YEAR 11 & YEAR 12 COURSES

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SENIOR COLLEGE

1.

Why do Engineering Studies?

The Engineering Studies Stage 6 Syllabus is directed towards the development and application of mathematical, scientific and technological skills and their integration with business and management.

It provides students with skills, knowledge and understanding associated with a study of engineering, its practices and associated methodologies.

The subject promotes environmental, economic and global awareness, problem-solving ability, engagement with information technology, self-directed learning, communication, management and skills in working as a team.

2.

Year 11 Course

Students undertake the study of 4 compulsory modules:

- Three application modules based on engineering concepts and impacts through the study of engineering products. Engineering concepts and impacts are studied in each of the following categories: Engineering Fundamentals, Engineering Products and Braking Systems.
- One focus module relating to the field of Biomedical Engineering.

3.

Year 12 Course

Students undertake the study of 4 compulsory modules:

- Two application modules relating to the fields of Civil Structures and Personal and Public Transport.
- Two focus modules relating to the fields of Aeronautical Engineering and Telecommunications Engineering.