Course Advantages

Students will gain credit for a QUT unit without

• Giving up a school subject
• Disrupting other subjects
• Accruing a HECS / HELP debt – QUT covers the full cost with a scholarship

Upon successful completion, students will gain credit at the end of Semester 1, Year 12

• Students could therefore have a lighter load in Semester 2 or
• Students could choose to take up QUT Start program in Semester 2

Students will not have to relinquish a subject at school and thus potentially sacrifice their OP to study a University accredited course.

Guaranteed entry into QUT, subject to reaching criteria outlined in the Memorandum of Understanding.

Pre-requisite

To be eligible for entry into the Year 11 and 12 Engineering Technology course, it is highly recommended that Year 10 students have successfully completed Year 10 Foundation Physics and Engineering Technology to a high achievement level.

Bursary Opportunities

Engineering Technology students who have successfully completed the ENB110 Engineering Statics and Materials course and have gained credit for both the subject at school and university are eligible to apply for the Vice-Chancellor’s Scholarship to QUT worth $25,000 (Visit kelvingrovesc.eq.edu.au for more information).

The top KGSC student is eligible to receive a $3000 scholarship to continue their studies in Engineering at QUT (unless they have already been awarded a QUT Vice Chancellor’s Scholarship or other merit-based QUT scholarship of higher value).

For further information please contact the Head of Department Senior School on 07 3552 7333

Kelvin Grove State College
Senior School
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Kelvin Grove 4059

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CRICOS Provider Number: 00608A
General Information

Kelvin Grove State College (KGSC) in partnership with Queensland University of Technology (QUT) offer eligible senior students the opportunity to study Engineering Technology, whilst simultaneously enrolled at QUT to study ENB110 Engineering Statics and Materials. The students who meet the START QUT entry requirements would begin this program Semester 1 of Year 11.

By the end of Semester 1 Year 12, students will have completed the QUT unit ENB110 Engineering Statics and Materials with a second unit being studied in semester 2. The assessment students do for QUT unit ENB110 Engineering Statics and Materials also forms part of the Engineering Technology assessment with students attending tutorials and laboratories at QUT. A successful result on this component of the course awards students three extra rank selection points that contribute towards their OP if they apply for an engineering degree at QUT.

Course Outline

In the Engineering Technology and QUT ENB110 Engineering Statics and Materials course students are required to attend four 70 minute sessions each week at KGSC. Students will complete Engineering Technology over two years and the QUT course over Semester 1 Year 12, attending several 2 hour lectures, tutorials, laboratories and student instructed sessions at the QUT campus.

Where might this subject lead?

Engineering Technology provides a sound foundation in the principles and underlying concepts necessary for further study and career opportunities such as:

• Electrical, Civil, Mechanical, Industrial, Sound or Environmental Engineer
• Architect, Landscape or Naval Architect
• Construction Manager, Project Manager
• Quantity Surveyor
• Industrial Designer
• Computer Engineer and Games Designer

Course Overview

Engineering Technology

Engineering Technology introduces students to principles and methodologies that contribute to the construction and manufacture of the built environment from microchips to bridges.

Why study Engineering Technology?

Engineering Technology is a course of study that provides an opportunity for students to gain an understanding of the underlying concepts and principles of engineering in its broadest sense.

What do students learn?

Engineering Technology is an applied study requiring activities involving investigative and/or experimental techniques. The subject is taught as an integrated unit and structured so that students cover the following prescribed areas of study:

Semester 1:
- Materials, graphics, mechanics, statics, control systems

Semester 2:
- Mechanics, dynamics, components, materials, polymers

Semester 3:
- Bridges, technology, control systems, composites, ceramics

The subject matter is dealt with in the context of five technology areas. These areas are energy technology, manufacturing technology, communication technology, construction technology and transportation technology.

Please note:

Students may only take up this subject at the beginning of the year, as the course is developmental.