



## Senior Cycle – Engineering

### Subject Group: Practical

Engineering is a practical based subject whereby students develop a variety of engineering skills and show an understanding of related theory elements. It promotes an educational understanding of various materials and a knowledge of the processes associated with such materials. This is achieved through the development of skills and initiative in the planning, development and realization of technological projects in a safe manner.

Engineering is a natural progression from Metalwork or Technology at Junior Certificated level. Some students opt to take up Engineering after studying the Engineering module in Transition Year. Topics such as material Science, Machining, Materials Testing, Metal Joining, Polymers, Electronics, Structures and mechanisms form the main theory elements covered.

Engineering is useful for the following careers: Electronic, Mechanical and Biomedical Engineering, Architecture and Design. Trades such as Fitting, Mechanics, Electrical and Plumbing are also related career choices.

### Third Level Entry Requirements

This subject is not an essential requirement for any of the courses in the CAO system.

### Assessment

There are three elements of assessment in Engineering

- A) Design and Make Project. 25%
- B) Practical Day Exam. 25%
- C) Theory Paper. 50%