

Leaving Certificate 'Engineering' at Coola PPS

An activity-based engineering environment provides opportunities for students to gain greater knowledge, understanding and experience of different engineering materials and processes and their applications in society. This course provides a foundation for further study in the area of engineering and contributes to the overall personal development of the students, their preparation for further education/training and for adult and working life.



Room 4 - Engineering Room



Examples of new room

The study of **Engineering** at leaving Certificate aims to:

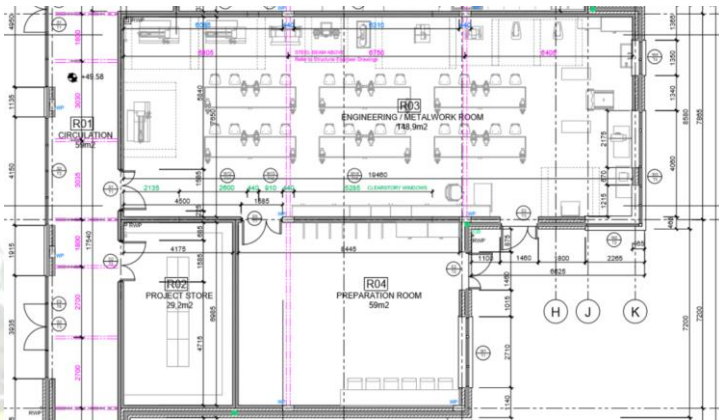
- to introduce students to a range of practical skills and associated knowledge
- to provide them with opportunities for converting raw materials to finished artifacts
- to develop and use the specialized vocabulary associated with engineering
- to develop their knowledge and skills into a problem solving capability
- to develop an understanding of safe working practices
- acquire skills in the use of a range of tools and equipment
- to develop an awareness of the role that mechanisms play in engineering

Learning Experiences

Students will be active participants in their learning. The focus of leaving certificate Engineering is goal oriented problem solving for the manufacture of products, with emphasis on efficiency, accuracy, precision and a high-quality finish. This project based approach to Leaving certificate Engineering requires students to develop a knowledge of materials and processes.

New Engineering Room

Below is examples of detailed drawings and examples of what our new Engineering room will look like. Due for completion May 2020

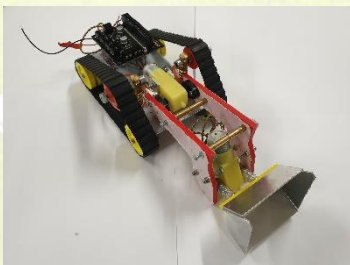
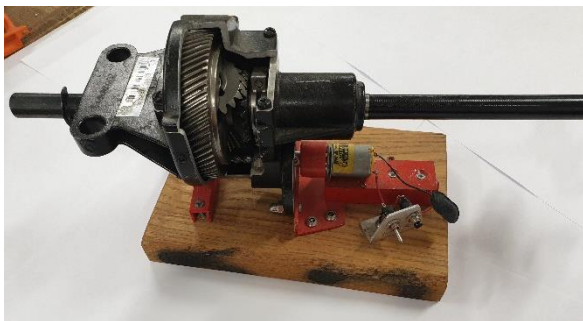


Project and Written Examination

On completion of the syllabus and coursework. The pupils will be examined in 3 areas. The brief for the project is set and marked by the State Examinations Commission (SEC) and is delivered to the school just before the October Midterm. The project accounts for 25% of the final SEC grade. The second component of their examination process is a Day Exam that they complete in early May. The final exam accounting for the other 50%.

Project and Written Examination

Below is an example of some of the projects they will complete over their 2 years.



Student Achievement

Here at Coola PPS our students excel in the Practical Subjects. Students choosing Practical Subjects in this school have consistently performed higher than the national average receiving a grade of H3 or higher in higher Level in Engineering.