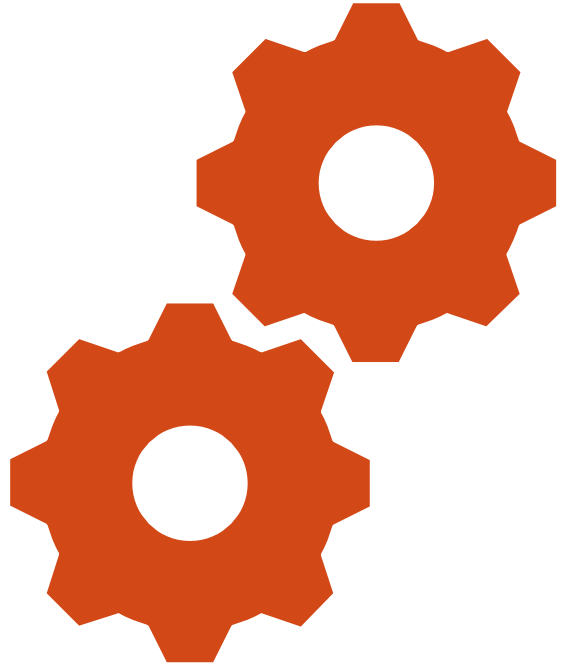


LEAVING CERT ENGINEERING



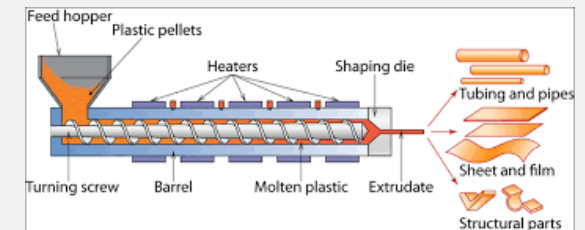
INFORMATION ON ENGINEERING

It is a broad course, covering both theory and practise of Engineering skills. Leaving Cert Engineering helps give you a knowledge of the materials; an understanding of the processes; ability in safely using the skills and tools to do practical work and development of technological projects.



The syllabus for Leaving Cert Engineering has two sections

1. **Workshop Processes: Practical:** This is all the practical processes which may be applied in the school workshop integral with the related theory. This section will carry 300 marks in the examination at both levels.
2. **Materials and Technology: Theory:** This section represents the wider knowledge and technology as a whole. This is a written examinations and topics covered in this section are:
 - Materials Science
 - Welding
 - Atomic Structure and Heat Treatment of Metals
 - Plastics
 - Machining
 - Electronics, Technology
 - Design and manufacture



THE EXAM



There are 3 Parts to the Leaving Cert Engineering Exam.

1. Practical Project and Portfolio

A Technology Project Based on a brief sent to schools during 6th year. This is worth 25 % of the overall marks for Higher Level Engineering and 30% at Ordinary Level.

2. Practical Exam (May)

A Practical Skills Exam which takes place for 6 hours, in schools in May. This is worth 25% for Higher Level and 30% for Ordinary Level Engineering Students.

3. Theory Exam

A Written Exam, lasting 3 hours at Higher Level and 2.5 Hours at Ordinary Level, makes up the remainder of marks.

LINKS WITH OTHER SUBJECTS



DCG



Physics



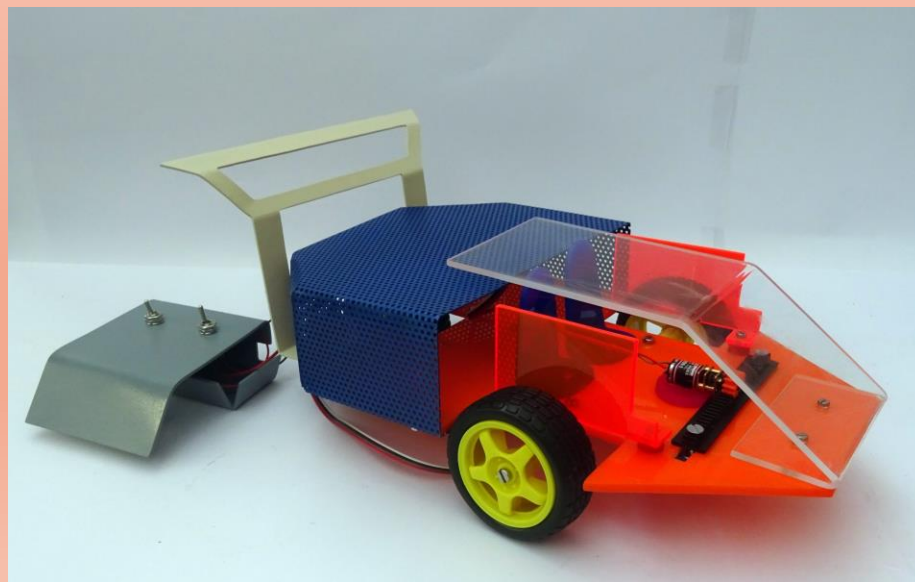
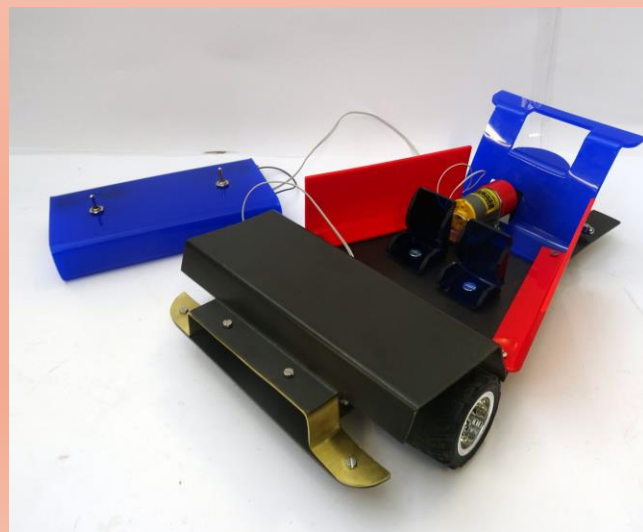
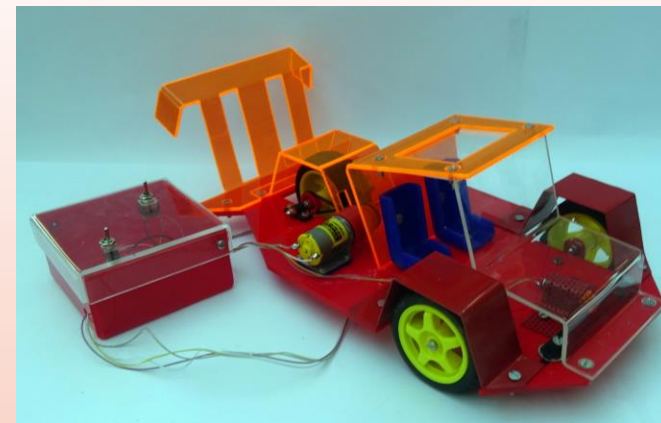
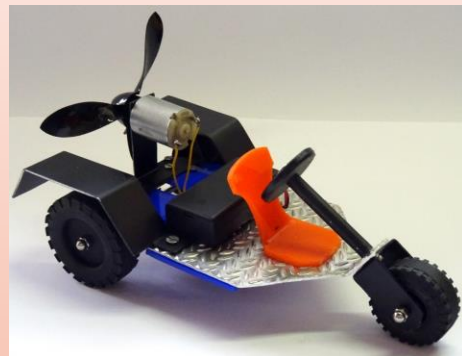
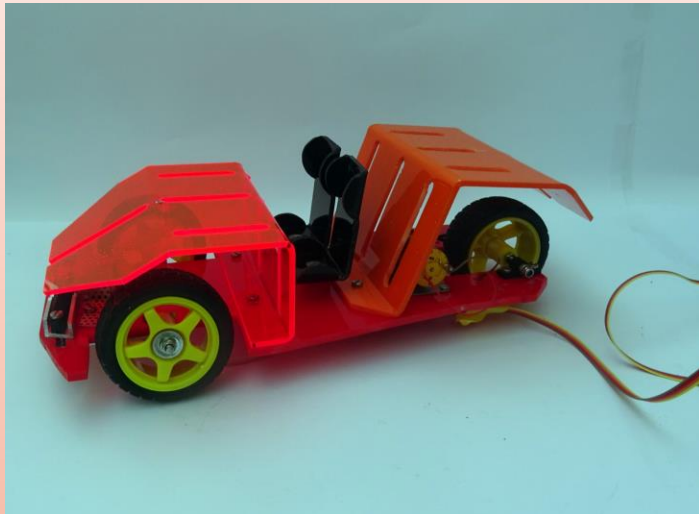
Chemistry



Metalwork in
Junior Cycle



EXAMPLE OF PROJECT WORK



COLLEGE COURSES / JOBS

TYPES OF ENGINEERS

- Chemical
 - Bioengineering and biochemical
 - Ceramic and materials
 - Process
- Civil
 - Environmental
 - Structural
 - Transport
- Electrical
 - Computer / *software*
 - Electronic
 - Optical
 - Power
- Mechanical
 - Aerospace
 - Acoustical
 - Manufacturing
 - Thermal
- Other
 - Agricultural / mining
 - Biological / Biomedical
 - Energy
 - Industrial
 - Nuclear
 - Petroleum



ENGINEERING COMPANIES IN IRELAND



ORACLE



Google

cādence



HUMAX
EASY DIGITAL



IBM

SanDisk



accenture



SYNOPSYS

intel

First GBRf



EMC²



vmware

XEROX

YAHOO!

COGNEX

MICRO FOCUS



SAP



ALTERA



Mentor Graphics

ANALOG DEVICES
AHEAD OF WHAT'S POSSIBLE™

Teradata
a division of NCR

ABB

+1000
more companies

WHY CHOOSE ENGINEERING?



- Good pay
- Opportunities to work outdoors
- Opportunities to travel
- Challenging, interesting and diverse career

