

Click to add text.

# Engineering

**A Senior Cycle Option Subject**  
which follows on naturally from  
**Junior Cycle Engineering,**

but can be started as a new subject in 5<sup>th</sup> Year  
with the right **APTITUDE** and **ATTITUDE**.

# Study topics

Chemistry of Materials

Properties of Materials

Iron and Steel

Non-Ferrous Metals

Alloys

Plastics

Metrology

Testing of Materials

Manufacturing

Design

Heat Treatment

Machining

Precision Grinding

Theory of Metal Cutting

Welding

Adhesive Bonding

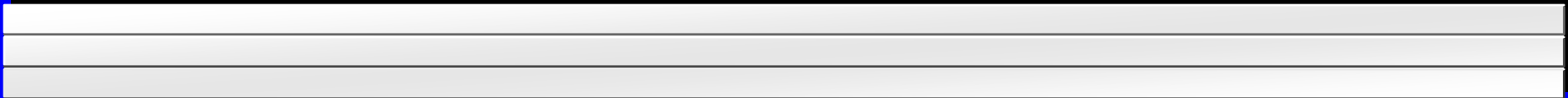
Electronics

Pneumatics

Computer numerical

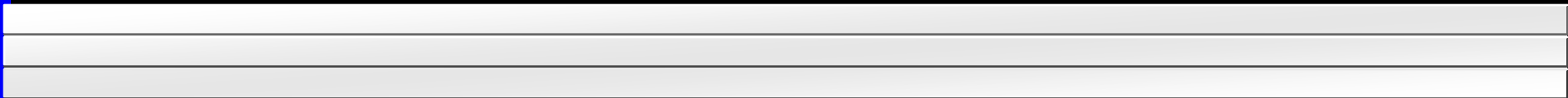
control (CNC)

Special Topic



# Special Topic 2024

## The Design, Operation and Technology of Container Ships



# Two Year Programme

## 5<sup>th</sup> Year

**Sept – Dec:** All practical  
To acquire necessary skills.

**Jan – May:** Group Project

### **Summer Exams:**

Practical test - 50%

Written test - 50%

## 6<sup>th</sup> Year

**Sept – Oct:** All Theory  
Best time to get a run at the course.

**Nov – Mar:** Project work - 25%  
(Different each year)

**Feb** - (Mock Exams)

**Apr** - Practical Test - 25%

**June** - Written Test - 50%

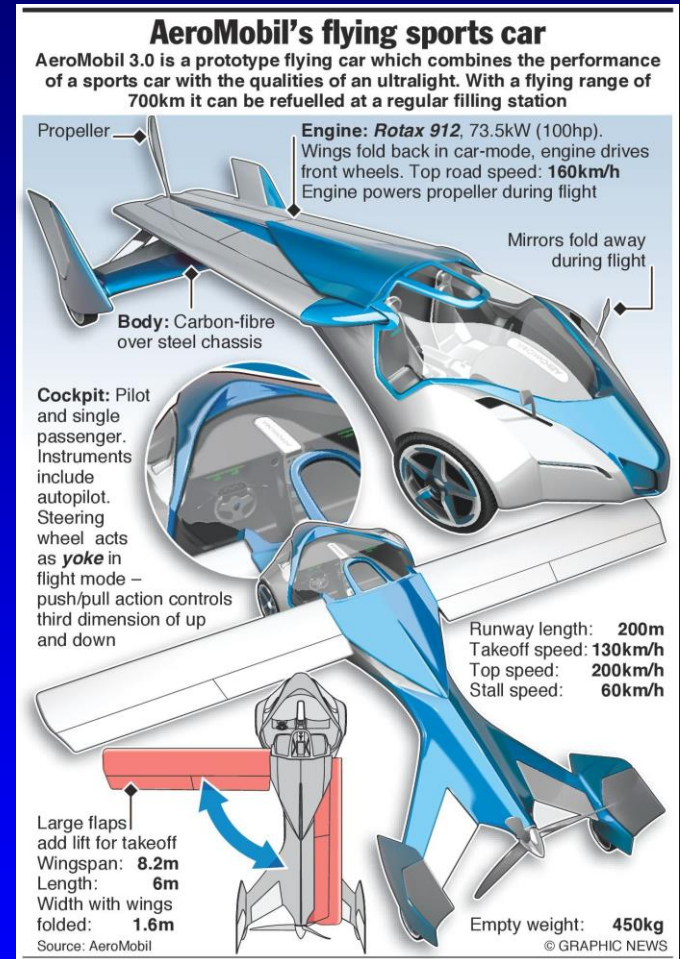


# LCH Project 2019

## Design and make a model of the AeroMobil

The model must have:

1. Forward propulsion
2. Retractable wings
3. A unique feature



# LCO Project 2024

## Make a Model Club Car.

The model must have:

1. An electrical drive system
2. A storage compartment



# Assessment

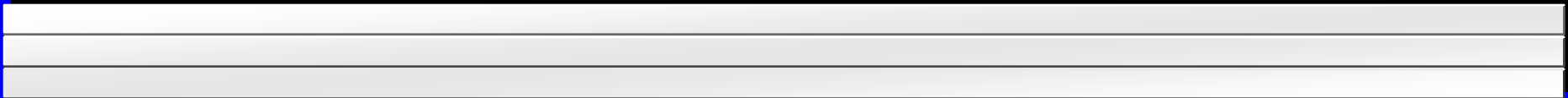
## Higher Level

Project	25%
Practical	25%
Theory	50%

## Ordinary Level

Project	30%
Practical	30%
Theory	40%

Note: The Practical Test is common to both levels.





# Textbook

## Leaving Cert Engineering

written by:

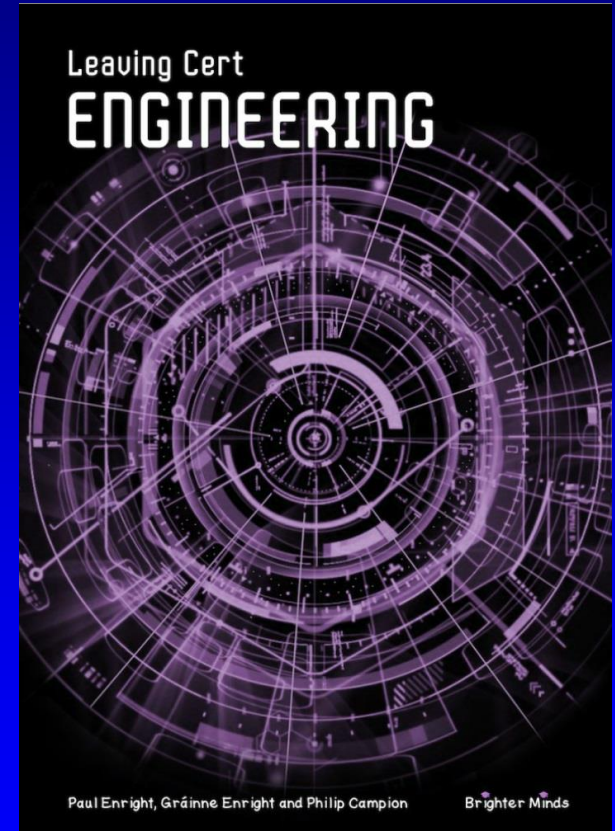
**Paul Enright,**

**Grainne Enright**

**& Philip Campion**

published by:

**Brighter Minds**





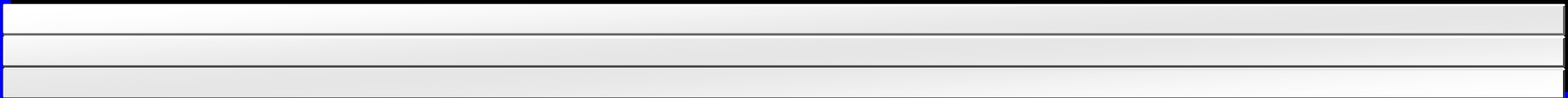
# Reasons to do Engineering

## Good reasons:

- Did JC Engineering or MT Wood and liked it
- Have good Technological abilities
- Like how the assessment is arranged
- Would like to study Engineering in College???
- Fancy a career in some area of Engineering

## Not so good reasons:

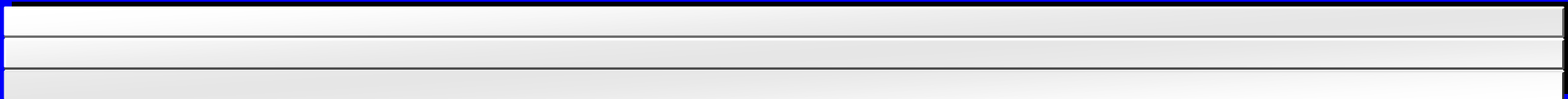
- Like the sound of the word “Engineering”*
- It's all about engines, vroom, vroom!*
- Friends are doing it and I don't want to be left out*



# Like more info?

Come to G14 and have a look around.	Speak to JON or JM
Chat to 5 <sup>th</sup> or 6 <sup>th</sup> yr. Engineering students.	Have a look at the Textbook & Website.

[www.newparkmetalwork.com](http://www.newparkmetalwork.com)



**ANY QUESTIONS?**

Thanks for your attention!

