

Subject Overview

The subject aims to provide a relevant course for students who will complete their study of chemistry at this level while, at the same time, providing a foundation course for those who will continue to study chemistry or related subjects following completion of their Leaving Certificate. The syllabus consists of approximately 70% pure chemistry; the remaining 30% deals with the social and applied aspects of chemistry.

Content

Subject content is presented at Ordinary level and Higher level under the headings:

1. Periodic Table and Atomic Structure
2. Chemical Bonding
3. Stoichiometry, Formulas and Equations
4. Volumetric Analysis
5. Fuels and Heats of Reaction
6. Rates of Reaction
7. Organic Chemistry
8. Chemical Equilibrium
9. Environmental Chemistry: Water

Option 1

- 1A: Additional Industrial Chemistry
- 1B: Atmospheric Chemistry

Option 2

- 2A: Materials
- 2B: Additional Electrochemistry and the Extraction of Metals

Mandatory experiments are listed at the end of each main syllabus section.

Assessment

Leaving Certificate Chemistry is assessed by means of a terminal examination paper at each level. Students are required to keep a record of their practical work over the two years of the course.

Subject/Course Choice

If students are looking to do a course in Science, Information Technology, Engineering or Medicine at third level this is a very good subject to study for the Leaving Certificate. If students excelled at Science and Maths at

Junior Certificate this is very likely a good match for them if they want to pursue the above courses.