



Periodic table, elements and physical – Exam Paper – 37% of marks

Chemistry – Exam Paper – 37% of marks

Unified Chemistry – Exam Paper – 26% of marks

Summary

The course is divided into 6 modules

Module 1 – Development of practical skills in chemistry

Practical skills assessed in a written examination

Module 2 – Foundations in chemistry

Atoms, compounds, molecules and equations; Amount of substance; Acid–base and redox reactions; Electrons, bonding and structure.

Module 3 – Periodic table and energy

The periodic table and periodicity; Group 2 and the halogens; Qualitative analysis; Enthalpy changes; Reaction rates and equilibrium (qualitative).

Module 4 – Core organic chemistry

Basic concepts; Hydrocarbons; Alcohols and haloalkanes; Organic synthesis; Analytical techniques (IR and MS).

Module 5 – Physical chemistry and transition elements

Reaction rates and equilibrium (quantitative); pH and buffers; Enthalpy, entropy and free energy; Redox and electrode potentials; Transition elements.

Module 6 – Organic chemistry and analysis

Aromatic compounds; Carbonyl compounds; Carboxylic acids and esters; Nitrogen compounds; Polymers; Organic synthesis; Chromatography and spectroscopy (NMR).

For more information follow these links with your phone:

