



AIMS

Chemistry is the study of matter and energy, involving a consideration of the composition of substances, their preparation and their effects on one another. This course familiarises students with a wide range of chemicals and processes - both organic and inorganic, with particular emphasis being given to those involved in everyday living, in biological systems and in the activities of industry.

LEARNING OUTCOMES

After successfully completing this subject students should be able to:

- Demonstrate a knowledge and understanding of chemical concepts using appropriate scientific terminology.
- Communicate concepts using correct chemical terms and conventions.
- Develop laboratory skills including following a procedure, recording and interpreting observations and correctly using apparatus, particularly glassware.
- Complete written experimental reports.

PREREQUISITES AND ASSUMED KNOWLEDGE

There are no prerequisites or assumed knowledge for this subject.

SUBJECT CONTENT

WEEK	TOPIC AND ASSESSMENT SCHEDULE
1	Orientation week
2 - 3	Atomic Structure
4	Periodic Table
5 - 8	Bonding
9 - 12	Stoichiometry
13 - 16	Redox
17 - 19	Revision and Exams
20 - 22	Energy
23 - 24	Rates of reaction
25 - 31	Organic Chemistry
32 - 33	Equilibrium
34 - 35	Acids and Bases
36	Revision
37 - 38	SWOTVAC & Exams
39	Graduation and transcript collection
40	End of course



ASSESSMENT

General weightings for each assessment item are outlined below

ASSESSMENT ITEM	WEIGHTING	DUE DATES
Tests (7)	25%	Weeks 6, 9, 17, 26, 29, 33, 36
Assignments (4)	10%	Weeks 5, 11, 25, 32
Practical reports (4)	15%	Weeks 13, 16, 24, 30
Midyear theory examination	7.5%	As per College examination timetable
Midyear practical examination	5%	Week 18
Practical oral presentation	2.5%	Week 27
Final examination	30%	As per College examination timetable
Participation	5%	Continuous