St. Francis Xavier's College
2026-2027
Chemistry

Course Outline

Level: F.5
Term: 1

	Topics / Main Theme
1	Non-octet structure and Bond polarity
2	Intermolecular forces
3	Structures and properties of molecular crystals
4	Chemical cells in daily life
5	Simple chemical cells
6	Redox reactions
7	Redox reactions in chemical cells

Term: 2

	Topics / Main Theme
1	Electrolysis
2	Energy changes in chemical reactions
3	Standard enthalpy change of combustion, neutralization, solution and formation
4	Rate of chemical reaction
5	Factors affecting rate of reaction
6	Molar volume of gases at room temperature and pressure (r.t.p.)
7	Dynamic equilibrium
8	Equilibrium constant
9	Factors affecting chemical equilibrium

Summer tutorial class

1	Introduction to selected homologous series
2	Isomerism
3	Typical reactions of various functional groups
4	Inter-conversions of carbon compounds
5	Important organic substances
6	Periodic variation in physical properties of the elements from Li to Ar
7	Bonding, stoichiometric composition and acid-base properties of oxides of the elements from Na to Cl
8	General properties of transition metals

Weighting percentage of different modes of assessment

First Term:

	Regular Test	Designated assignments	Term Exam
F.5	**10%**	**10%**	**80%**

Final Term:

	Regular Test	Designated assignments	Term Exam
F.5	**10%**	**10%**	**80%**