

**St. Francis Xavier's College**  
**2017/2018**  
**Chemistry**

**Course Outline**

**Level: F.5**

**Term: 1**

	<b>Topics / Main Theme</b>
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**

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

**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

**Weighting percentage of different modes of assessment**

**First Term:**

	<b>Regular Test</b>	<b>Designated assignments</b>	<b>Term Exam</b>
<b>F.5</b>	<b>10%</b>	<b>nil</b>	<b>90%</b>

**Final Term:**

	<b>Regular Test</b>	<b>Designated assignments</b>	<b>Term Exam</b>
<b>F.5</b>	<b>10%</b>	<b>nil</b>	<b>90%</b>

