

**Topics of General Chemistry (Theory)-1386-87-1**

**-4 units**

<b>Topic of first and second sessions</b>	<b>Reference Chapters of Mortimer 1986</b>
introduction & measurements in chemistry primary principals in measurements in chemistry	chapter 1-2 to 1-5; chapter 2-7 to 2-9;  chapter 3; Chapter 4-1 to 4-5
chemical bonding–molecular orbitals chemical bonding–molecular orbitals	chapter 6:6-4 to 6-9; chapter 8 chapter 9
gases liquids	chapter 10 chapter 11-1 to 11-8
solids solutions and appropriated rules	chapter 11-9 to 11-16 chapter 12
chemical kinetics	chapter 14-1 to 14-5 chapter 14-5 to 14-8
chemical equilibrium	chapter 15 chapter 17-1 ;17-5;18-1 to18-3
acids and bases salts; buffers hydrolysis	chapter 16;17-1-17-5 chapter17-6 to17-9
solubility	Analysis of the above mentioned chapters
thermodynamics	chapter 19-1 to 19-6 chapter 19-6 to19-8
electrochemistry	chapter 20-1 to 20-7 chapter 20-7 to 20-13 chapter13
halogens	chapter 21
sulfur compounds	chapter 22
nitrogen compounds	chapter 23
complex systems	Chapter 26
metals: groups I – III-V	Chapter 25

**References:**

- 1) Mortimer C. E, Chemistry. Last edition.;
- 2) Atkins P.W, General Chemistry. Last edition.

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**By: Dr Sara Rasoul-Amini**

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