

## Faculty of Oral & Dental Medicine

### Chemistry

#### Information :

**Course Code :** SGS 121

**Level :** Undergraduate

**Course Hours :** 4.00- Hours

**Department :** Faculty of Oral & Dental Medicine

#### Area Of Study :

At the end of the course, the students should have good knowledge of the following topics: Classical theory of structures; Bohr's model of hydrogen atom; Quantum theory, basic concepts; Electronic configuration of the elements; General trends within the periodic table; Chemical bonding and molecular structure; Acids and Bases; Chemical equilibrium; Qualitative inorganic analysis (identification of acidic and basic radicals in simple salts; Volumetric analysis).

#### Description :

Physical Chemistry, States of matter, periodic table, solutions & chemical bonding

#### Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Classification of living organisms	4	Classification of living organisms	Classification of living organisms
Bacteria	4	Bacteria	Bacteria
Fungi	4	Fungi	Fungi
Virus	4	Virus	Virus
Introduction to Genetics (mitosis and meiosis)	4	Introduction to Genetics (mitosis and meiosis)	Introduction to Genetics (mitosis and meiosis)
The genetic code, protein synthesis and Gene regulation	4	The genetic code, protein synthesis and Gene regulation	The genetic code, protein synthesis and Gene regulation
Mutation , Mendelian inheritance	4	Mutation , Mendelian inheritance	Mutation , Mendelian inheritance

**Course Topic And Contents :**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Tutorial / Practical</b>
Genes and diseases	4	Genes and diseases	Genes and diseases
Identification of inherited disease	4	Identification of inherited disease	Identification of inherited disease
Karyotype. Molecular genetics testing	4	Karyotype. Molecular genetics testing	Karyotype. Molecular genetics testing

**Teaching And Learning Methodologies :**

Lectures
Demonstrations
Role playing and hands on
Small group discussion

**Course Assessment :**

<b>Methods of assessment</b>	<b>Relative weight %</b>	<b>Week No</b>	<b>Assess What</b>
1st Mid Term Exam	20.00		
2nd Mid Term Exam	20.00		
Class work	20.00		
Final Written Examination	30.00		
Practical examination	10.00		