

Baghdad University
 College of Dentistry
 Department: Basic Science
 Course title. Chemistry
 Stage: 1st



Course Coordinator: Dr. Mohamed Sami
 Academic status: Lecturer
 Qualifications: Ph. D in Biochemistry

Course syllabus

Week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1		Acid, Base and Salt	Action of Strong Base and Acids	
2		salts, preparation of salts	Solubility rules and Applications (Solubility rules of salts).	
3		Fluid and electrolyte	Test for negative ions (Anions).	
4		Buffer-pH and Acid-Base Balance	Test for negative ions (Anions).	
5		acid-base balance and blood pH	Test for positive ions (Cations).	
6		Colloids and colloidal dispersions	Test for positive ions (Cations).	
7		Molar concentration (Molarity)	Test for positive ions (Cations).	
8		Chirality in Biological Systems	Hydrocarbons.	
9		Pollution	Aliphatic hydrocarbons.	
10		Radiochemistry	Aromatic hydrocarbons	
11		Alkanes and Cycloalkanes	Aromatic hydrocarbons	
12		Alkenes and Alkynes	Aromatic hydrocarbons	
13		Aromatic compounds	Aromatic hydrocarbons	
14		Aromatic compounds in Nature	Carbohydrates.	
15		Stereoisomers of Carbon	Carbohydrates.	
16		Diastereomers	Carbohydrates.	
Half-year Break				
17		Phenols (preparation, reactions)	Lipids.	
18		Carboxylic Acids And Their Derivatives	Lipids.	
19		Amides	Lipids.	
20		Aldehydes and ketones	Protein.	
21		Carbohydrates	Protein.	

22		Monosaccharide's	Protein.	
23		Disaccharides	Protein.	
24		Lipids	Acid-Base Titration.	
25		Derived lipids	Oxidation –Reduction.	
26		Proteins and Amino Acids	pH-Meters.	
27		Amino acids	Buffers.	
28		Nucleic Acids	Buffers.	
29		Nucleosides, Nucleotides	Osmosis.	
30		Dioxy and ribo Nucliec acids	Paper chromatography	