



Planning and Quality Assurance Affairs

Course Specifications

General	Information
Ocher al	Intor mation

Course name	General Chemistry(1) (0304101)
Course number	MEDI1414
Faculty	
Department	
Course type	Major Needs
Course level	1
Credit hours (theoretical)	3
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

- this course is intended to give the student the basic concepts of chemistry as stiochemetry, chemical formulas, chemical structures, balanced chemical equations and the basic concepts of equilibrium and kinetics.
- 2 This course begins with topics such as the mole concept, stoichiometric determination, structure of the atom and the atomic theories, chemical formulas, limiting reactant, electronic configuration of the elements, It includes the periodic table beside the periodic properties of the atoms such as atomic size, ionization energy and electron affinity.
- 3 The student is also introduced to study the principle of chemical bonding in general terms and stresses the importance of applying theory to practice such as Lewis structure, VSEPR, Valence bond and molecular orbital theories.
- The properties of solids, liquids, solutions, studying of the intermolecular forces between solid and liquid molecules, reactions in aqueous solutions such as redox reaction, precipitation reactions and neutralization reaction, kinetics, equilibrium, electrochemistry and redox reaction.
- 5 The student is introduced to techniques in qualitative analysis given an introduction in analytical chemistry through studying the acids-bases theories, ionic equilibria, calculating the pH of the solutions, principles of buffer solutions and solubility product, and finally the elements of thermodynamics and thermochemistry.

Students Assessment

Assessment Method	<u>TIME</u>	MARKS
first midterm	1h	20%
scound midterm	1h	20%
quieses and homworks	-	10%
final exam	2h	50%

Books and References

Essential books	CHEMISTRY, TENTH EDITION Raymond ChangAmericas, New York, NY 10020. Copyright
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