

**Course number and grade:** 104 Chem

**Course Name:** general chemistry

**Modules:** (practical)( 1)

**Level:**1,2

**Laboratory time** :Mon 10-12

**Topics of course:**

**The theoretical part:**

1-Accounts of Chemical:

International System of Units - chemical formulas - Molar mass and the means of expressing focus - the accounts of chemical equations

2-Gas

Laws and kinetic theory of gases - equivalent Anitrvals.

3- Thermal

Types of changes in heat content - the law of Hess and its applications - the first law of thermodynamics

4- Solutions

Kinds of laws relating to them - the aggregate properties

## 5- Mobility:

Act fast interaction - P interaction - factors affecting the interaction.

## 6-Chemical balance

The relationship between  $K_c$  and  $K_p$  - the principle of Ouchetlier and the factors affecting the balance.

## 7-Ion balance

Theories of acids and bases - Calculate the pH of the solvents, acids and bases and solvents Organization - Hydration salts

## 8-Agency:

Emission spectrum - the theory of the hydrogen atom Bohr

- de Broglie hypothesis - the number of quantum - mail

order of the elements - the results of the periodic

arrangement of the elements

## Practical part:

Give the student a series of experiments on topics within the theory (12) experience

### **Grade Classification**

Midterm 30(theoretical 5, Practical 25)

Final exam 30(theoretical 5, Practical 25)

Report 10

Assessment 10

Quizzes 15

Attend 5

### **References:**

The book "General Chemistry practical