Course Description Form

1. Course Name:

General Chemistry I

2. Course Code:

VEP1104

3. Semester / Year:

First year / first semesters

4. Description Preparation Date:

2024/2/14

5. Available Attendance Forms:

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First year students

6. Number of Credit Hours (Total) / Number of Units (Total)

60 hours/ 3 UNITS

- 7. Course administrator's name (mention all, if more than one name) Name: Ahmed A. Azeez
 - Email: aliahmed.aam@uokirkuk.edu.iq

8. Course Objectives	
Course Objectives	1.Providing students with the basic
	concepts and experience necessary to
	prepare them as veterinarians and
	teaching veterinary students the basics
	of chemistry.
	2. The study of general chemistry,
	which is one of the basics of medical
	sciences, as it aims to study the
	chemical reactions that occur between
	substances on the one hand and their
	relationship to the body on the other.
	3. That the student acquire intellectual
	skills related to modern methods and
	trends, and that the student acquires
	manual skills that qualify as the
	outcome of laboratory work.
	4. Spreading the spirit of cooperation
	among students through laboratory wor

9. Teaching and Learning Strategies					
Strategy	Strategy A- Cognitive goals .				
	A1- Teaching the student the concept of biochemistry and its general				
	principles				
	A2- Knowledge, understanding and comprehension of the scientific				
	subject curriculum				
	A3- To classify the theoretical and practical needs for the				
	development of learning and teaching in the appropriate manner with				
	the scientific material				
	A4- Identifying the composition of the chemical substances in the animal's body.				
	A5 - Identify the methods of metabolism of substances				
	(carbohydrates, proteins and fats)				
	A6- Studying the structure and classification of hormones and their				
	relationship to the life cycle of an animal and its relationship to the				
	body's biological reactions				
	A7- Studying the structure of enzymes, their mechanism of action a				
	their effect on chemical reactions.				
	B. The skills goals special to the course.				
	B1 - Teaching the student how to draw blood.				
	B2 - Teaching the student the methods of analyzing basic chemicals				
	that affect animal life.				
	B3 - Teaching the student the techniques of optical absorbar				
	measurement devices for the purpose of measuring chemicals.				
	C-Teaching and Learning Methods				
	C1- Presentation methods: giving lectures to students while they are				
	sitting in front of the teacher, and they listen to him, and he must				
	have the ability to memorize and absorb information.				
	C2- Dialogue methods: the teacher uses the method of dialogue with				
	the students in the manner of asking questions to the students and				
	discussing the information with the students.				
	C3- The discovery method: the teacher observes the activities of the				
	students conducting the experiments individually or collectively.				
	C4- Active methods: the students performs individual or group				
	activities and the teacher takes the students hand towards learning				
	In practical life inside and outside the educational institution and to				

come into contact with the vocabulary of practical life, which gives meaning to real learning.

C5- Giving lectures using modern methods for presenting power point topics and scientific films.

D - General, qualification and transferable skills (other skills related to employability and personal development).

D1- Team work: working in harmony with the group or team.D2 - Initiative Motivation to work: the ability to take the initiative, determine the hypothesis, and develop ideas and proposed solutions.D3- Planning & organization: An ability to set plans and programs that are feasible for implementation.

D 4- Flexibility: adapting to situations.

D 5- Time management: The ability to work on specific dates.

10. Course Structure					
Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1	4	Atoms and electronic structure &periodic table.	Inorganic chemistry	Theoretical (2 hours) + practical (2 hours)	daily exam
2	4	Chemical bonding.	Inorganic chemistry	Theoretical (2 hours) + practical (2 hours)	Homework
3	4	Alkanes and cyclic compounds	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	daily exam
4	4	Alkenes	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	Homework
5	4	Alkynes.	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	daily exam
6	4	Aromatic compounds	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	Homework
7	4	Organic halides	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	
8	4	Mid-term exam.		Theoretical (2 hours) + practical (2 hours)	Theoretical (25) and practical (10) exams + reports (5)
9	4	Alcohols	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	daily exam
10	4	Ethers and phenols	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	Homework
11	4	Aldehydes and ketones	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	daily exam

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12	4	Carboxylic acids	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	Homework	
13	4	Carboxylic acid derivatives Amines	Organic chemistry	Theoretical (2 hours) + practical (2 hours)	daily exam	
14	4	Acid base theory/ionization constant.	Analytical chemistry	Theoretical (2 hours) + practical (2 hours)	Homework	
15	4	Auto ionization of water/ measurement of pH.	Analytical chemistry	Theoretical (2 hours) + practical (2 hours)		
		Final-term exam.		Theoretical (2 hours) + practical (2 hours)	Theoretical and practical exams (45+15)	
11.	Course	Evaluation				
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc						
12.	Learning	g and reaching Resc	burces			
Required textbooks (curricular books, if any)			any) 1-SChaum's Biochemistry 2-Harper's il 28 th ed. 2009 Robert K. Mu 3-Biochemis &Genetics. 5 Todd A. Swa Glucksman.	 1-SChaum's outlines. General, Organic, and Biochemistry.2nd ed. 2-Harper's illustrated Biochemistry. 28th ed. 2009. Robert K. Murray, David A. Bender. 3-Biochemistry, Molecular biology &Genetics. 5th ed.2010. Todd A. Swarson, Sandra I. Kim, Marc J. Glucksman. 		
Main re	ferences	(sources)				
Recommended books and references						
(scientif	ic journal	s, reports)				
Electronic References, Websites						