Course description form

1. Course Name
Physiology
2. Semester /year
3. Data this description prepared
2024/9/1
4-Available attendance forms
Lectures
5. Number of study hours (total) / Number of units (total)
2 hours
6-Name of course leader (if more than one name is provided)
Theoretical parts Dr. Noor Dehyaa Hassan Practical parts Ban Jassim Sadoon
Course objectives

-Identifying the functions of different body systems. - Describe the mechanism of operation of the various body systems and the sequence of physiological events accompanying them	Course objectives
Teaching and learning strategies	
Methods of dealing with laboratory animals and scientif equipment - How to use chemical and physical material - Developing students' cognitive skills and deepening the spirit of research and discovery Acquiring human clinica examination skills	Strategy

5. Course structure

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1st	2	Definition of physiology, cell physiology ,cell components and functions	Definition of physiology, cell physiology ,cell components and functions	Theoretical lectures	Daily exam

2nd	2	Transport across cell membrane, extracellular and intracellular fluid	Transport across cell membrane, extracellular and intracellular fluid	Theoretical lecture	Daily exam
3rd	2	Muscular system :types and characteristics	Muscular system :types and characteristics	Theoretical lectures	Daily exam
4th	2	Mechanism of muscle contraction, fatigue and muscle pain	Mechanism of muscle contraction, fatigue and muscle pain	Theoretical lectures	Daily exam
5th	2	Nerve cells, shape , type , structure , impulse , signal	Nerve cells, shape , type , structure , impulse , signal	theoretical lecture	Daily exam

6th	2	Blood, function of blood, serum, plasm	Blood, function of blood, serum, plasm	theoretical lecture	Daily exam
8th	2	Erythrocyte , Hemoglobin and , Anemia. Role of erythropoietin in erythrocyte production	Erythrocyte , Hemoglobin and , Anemia. Role of erythropoietin in erythrocyte production	Theoretical lecture	Daily exam
9th	2	platelet and WBC	platelet and WBC	Theoretical Lecture	Daily exam
10th	2	Blood clotting mechanism	clotting Blood	Theoretical Lecture	Daily exam
11th	2	Cardiovascular system , heart valve cycle ,	Cardiovascular system , heart valve cycle ,	Theoretical Lecture	Daily exam

		HR conductive	HR conductive		
12th	2	Heart sound and murmurs, ECG	Heart sound and murmurs, ECG	Theoretical Lecture	Daily exam
13th	2	Blood Pressure	Blood Pressure	Theoretical Lecture	Daily exam
14th	2	Respiratory system	Respiratory system	Theoretical Lecture	Daily exam
15th	2	Oxygen transport and exchange	Oxygen transport and exchange	Theoretical Lecture	Daily exam
1st	2	Definition of physiology, cell physiology ,cell components and functions	Definition of physiology, cell physiology ,cell components and functions	Theoretical lectures	Daily exam

Course Evaluation	
Changing some of the vocabulary of the subject according to the global updates used in developing general physiology. Using deductive questions and questions whose answers require deep or outside-the-box thinking to motivate students to know the extent of their capabilities and mental abilities in deducing and arriving at conclusions. Also, using the research lecture method instead of the theoretical lecture, and identifying the extent to which female students can access the largest number of information about the subject, become familiar with it, and discuss research within the class, in order to create a generation aware of scientific research and its development	
Learning and teaching resources	
A-Required prescribed books	Medical physiology and general physiology book
1-Main references (sources)	GANINGHAM GYTUN , LIPPINCOT ,Vander
2-Recommended books and references (scientific journals, reports,...)	Scientific journals from the Internet, scientific reports and research from the Internet, new ideas and research that are presented in conferences and seminars and which are approved and published in later research.

B - Electronic references, Internet sites...	Free full, science direct, pub med

Course description form

1. Course Name
Biology
2. Semester /year
3. Data this description prepared
2024/9/1
4-Available attendance forms
Lectures
5. Number of study hours (total) / Number of units (total)
2 hours
6-Name of course leader (if more than one name is provided)
Fatema salim aabed

khawla abbas hadi

Course objectives

A- Cognitive objectives: A- theoretical application to practical laboratory material. B-Statement of knowledge.	Course objectives

Teaching and learning strategies

use of scientific references A-displaying slides of biological material on the screen and studying them under a microscope. B- Use a smart board. C-asking external questions that flow into the topic	Strategy

5. Course structure

The	Hours	Required	Name of	Teaching	Evaluation

Week		learning outcomes	the unit/topic	method	method
1st		The microscope, Introduction to Biology, The cells		Using the screen- scientific references	Daily and monthly exams
2-3		The Structure of cells , types , shape and size		Using the screen- scientific references	Daily and monthly exams
4-5		Movement in and out of cells: diffusion , osmosis , active transport		Using the screen- scientific references	Daily and monthly exams
6		Cell division: Amitosis, Mitosis and Meiosis		Using the screen- scientific references	Daily and monthly exams

7-8		Nucleic acid: DNA and RNA, DNA Replication		Using the screen- scientific references	Daily and monthly exams
9		Protein biosynthesis		Using the screen- scientific references	Daily and monthly exams
10-11		Human body tissues: Epithelial tissues		Using the screen- scientific references	Daily and monthly exams
12-13		Muscular and Nervous tissues		Using the screen- scientific references	Daily and monthly exams
14		Connective tissues: Bone and cartilage		Using the screen- scientific references	Daily and monthly exams

15		Blood (R.B.C and WBC) and lymph		Using the screen- scientific references	Daily and monthly exams
1st		The microscope, Introduction to Biology, The cells		Using the screen- scientific references	Daily and monthly exams
2-3		The Structure of cells , types , shape and size		Using the screen- scientific references	Daily and monthly exams
4-5		Movement in and out of cells: diffusion , osmosis , active transport		Using the screen- scientific references	Daily and monthly exams
6		Cell division: Amitosis, Mitosis and Meiosis		Using the screen- scientific references	Daily and monthly exams

7-8		Nucleic acid: DNA and RNA, DNA Replication		Using the screen- scientific references	Daily and monthly exams

Course Evaluation	
Learning and teaching resources	
A-Required prescribed books	A text book of Human biology
1-Main references (sources)	
2-Recommended books and references (scientific journals, reports,...)	
B - Electronic references, Internet sites...	

prepared

e forms
rs (total) / Number of units (total)
more than one name is provided)
aber

l the ability to use it on, including dialogue outside their use the language in	Course objectives

course written evaluation.	Teaching and learning strategies

e form of PowerPoint (slides) or a m in addition to some other sour	Strategy

red learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
ple Present, mple Past, nt Continuous	Lecture + Practical Exercises		Daily and monthly exams
stion Words hat, where, why...)	Interactive Exercises		Daily and monthly exams
inal Numbers Countries / nging Letters	Group Discussion		Daily and monthly exams
Medical breviations	Using Practical Examples		Daily and monthly exams
tuation Marks	Visual		Daily and

	Presentation		monthly exams
ng of Medical Terms	Using Practical Examples		Daily and monthly exams
xes, Prefixes, Root	Word Analysis		Daily and monthly exams
y Structure, s of the Body	Role-play + Interactive Exercises		Daily and monthly exams
ntation and ction Terms	Guided Video + Interactive Review		Daily and monthly exams
dy Position	Guided Presentation + Interactive Review		Daily and monthly exams
ly Activities	Guided Presentation + Interactive		Daily and monthly exams

	Activities		
ple Present, mple Past, nt Continuous	Lecture + Practical Exercises		Daily and monthly exams
stion Words hat, where, why...)	Interactive Exercises		Daily and monthly exams
nal Numbers / ountries / nging Letters	Group Discussion		Daily and monthly exams
Medical breviations	Using Practical Examples		Daily and monthly exams

ing questions, clarifying correct answers, and correcting
mistakes so that they are not repeated in the future, in
om participation for dialogue between students using
within the framework of scientific and methodological

books	Headway Plus/ Beginners New Student Book
rces)	Headway Plus/ Beginners New

	Key Words Book
References ts,...)	
ternet sites	

1. Course Name
Anatomy
2. Semester /year
3. Data this description prepared
2024/9/1
4-Available attendance forms
Lectures
5. Number of study hours (total) / Number of units (total)
2 hours
6-Name of course leader (if more than one name is provided)
Dr.Ahmed Diaa Assit.lec. Zahraa Mohmmed Hashim

Course objectives	
Cognitive objectives: 1- Identify the parts that make up each organ 2- Identify the tissues that make up each organ 3- Identify the specialized functions of organs and tissues	Course objectives
Teaching and learning strategies	
1 -The ability to convey ideas 2- Opening new horizons for the student and clarifying the general relationships between the practical and theoretical aspects 3- The ability to form research teams and teamwork 4- Using modern means of communication to interact positively with the professor 5-Enhancing self-confidence by presenting and discussing the report Evaluation methods	Strategy

5. Course structure

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method

1	6	Introduction, anatomical terms	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
2	6	Body cavities and its organs	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
3	6	Superficial anatomy of human body	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
4	6	human body tissues; types and . characteristic	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
5	6	Skin anatomy and its . functions skin color	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
6	6	General skeletal stricture (Skull, and .(neck	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
7	6	Vertebral column stricture, numbers and .its function	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
8	6	Diaphragm and abdominal wall .muscles	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
9	6	Anatomy of heart, wall, valve and its function	Practical and theoretical	Transferable general and	Examination daily and

				qualifying skills	monthly
10	6	Structure of blood vessels wall arteries, .veins and capillaries	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
11	6	Lymphatic system – .lymph glands	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
12	6	Respiratory system – .upper respiratory tract	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
13	6	Respiratory system- .lover respiratory tract	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
14	6	Alveoli- lungs- pleural .activity	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly
15	6	Upper and lower limb	Practical and theoretical	Transferable general and qualifying skills	Examination daily and monthly

Course Evaluation

Adopting a study plan that takes into account the academic accreditation standards for the specialization.

Work to update the school curricula to keep pace with the development of curricula and the rapid progress and boom in science

And scientific research.

Learning and teaching resources	
1-Main references(sources)	Clinical natomy Grants Atlas of Anatomy
2-Recommended books and references(scientific journals, reports,...)	Anatomy and physiology

1. Course Name
Medical Physics
2. Semester /year
3. Data this description prepared
2024/9/1
4-Available attendance forms
In-person education
5. Number of study hours (total) / Number of units (total)

2 hours	
6-Name of course leader (if more than one name is provided)	
Assist lect. Zainab Adil Ahmed	
Course objectives	
Laying foundations for introducing female students to the principles of physical applications of human body functions and the devices used to calculate physical variables in the .body for diagnosis and treatment	Course objectives
Teaching and learning strategies	
Helping students acquire basic information in the field of physics in a logical manner through: Giving students an idea of the subject and its importance in the coming stages. Study physical concepts and how to use them in medical sciences.	Strategy
5. Course structure	

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	Hours	week
General questions and discussion	Theoretical + practical	Physics of skeleton ,pressure	Pressure	4	nd -1st2
General questions and discussion	Theoretical + practical	Energy ,work and power of the body	Energy and work	4	3-4
General questions and discussion	Theoretical + practical	Heat and cold in medicine	Heat in medicine	4	5th-6th
General questions and discussion	Theoretical + practical	Specific heat , heat capacity , laten heat ,thermometer and its kinds	Specific heat and heat capacity	4	7th-8th

General questions and discussion	Theoretical + practical	Boyle law diffusion and mixing of gases	Boyle law	4	9^{th}-10^{th}
General questions and discussion	Theoretical + practical	Physics of lung and breathing	Waves	4	11^{th}-12^{th}
General questions and discussion	Theoretical + practical	Evaporation of liquid, vapour pressure and boiling point	Evaporation	4	13-14
General questions and discussion	Theoretical + practical	Physics of cardiovascular system	Systems	4	15-16
General questions and	Theoretical + practical	Physics of eye and vision , physics of ear and hearing	Magnetism	4	17-18

discussion					
General questions and discussion	Theoretical + practical	Electricity within the body	Electrical	4	19-20
General questions and discussion	Theoretical + practical	Application of electricity ana magnetism in medicine	Magnetism and electrical	4	21-22
General questions and discussion	Theoretical + practical	Light in medicine , sound in medicine	Light and Sound	4	23-24
General questions and discussion	Theoretical + practical	Physics of nuclear medicine, radiotherapy , radiation protection.	Nuclear	4	25-26
General questions and	Theoretical + practical	Physics of skeleton ,pressure	Pressure	4	nd -1st2

discussion					
General questions and discussion	Theoretical + practical	Energy ,work and power of the body	Energy and work	4	3-4

Course Evaluation

Making an amendment to the study plan so that the curriculum is intended for female students in the Department of Anesthesiology and linking general concepts in physics to the department's specialization.

Learning and teaching resources

Main references (sources)	
1-University Physics Volume 1 SENIOR CONTRIBUTING AUTHORS SAMUEL J. LING, TRUMAN STATE UNIVERSITY JEFF SANNY, LOYOLA MARYMOUNT UNIVERSITY WILLIAM MOEBS, PHD	

2-Physics Laboratory Experiments 8ed 3-Experiments and Demonstrations in Physics; Bar-Ilan Physics Laboratory 2nd Ed - Yaakov Kraftmakher	
1- A Student's Guide to Maxwell's Equations - D. Fleisch 2- Fundamentals of Physics I; Mechanics, Relativity, and Thermodynamics - Ramamurti Shankar (2019)	Recommended books and references (scientific journals, reports,....)
	Electronic references, Internet ...sites

1. Course Name
General Chemistry

2. Semester /year
Semester
3. Data this description prepared
2024/9/1
4-Available attendance forms
Lectures
5. Number of study hours (total) / Number of units (total)
2 hours
6-Name of course leader (if more than one name is provided)
Assit.Lec. Kadhim Adnan Ali Kadhim Assit.Lec.Abeer Jasim Sahib
Course objectives

At the end of the current academic year, the student will be able to- : **Performing various techniques of descriptive and quantitative analyzes of components in blood and other body fluids** **Man in health and sickness.**	Course objectives

Teaching and learning strategies

Define basic chemistry concepts such as atoms, molecules, compounds, compounds, and mixtures. **Apply gas laws such as Boyle's Law, Charles's Law, and Avogadro's Law.** **Distinguish between types of chemical reactions (combination, decomposition, substitution, and oxidation-reduction reactions).** **Study basic biomolecules such as carbohydrates, lipids, proteins, and nucleic acids.** **Understand the chemical structure and biological functions of these molecule**	Strategy

5. Course structure

Evaluation method	Teaching method	Name of the unit/topic	Required learning outcomes	Hours	The Week
General questions, discussion, and daily exam	**Theoretical+ Practical**	**Scope of biochemistry in health and disease, cell and cell .constituents**	**Scope of biochemistry in health and disease, cell and cell .constituents**	**4**	**1st**
General questions, discussion, and daily exam	**Theoretical+ Practical**	**Some aspects of physical chemistry, Gas laws, Boyle's law, Graham's Law of diffusion, Dalton's Law of partial pressure, General gas equation, the international system .of units**	**Some aspects of physical chemistry, Gas laws, Boyle's law, Graham's Law of diffusion, Dalton's Law of partial pressure, General gas equation, the international system of**	**4**	**2nd**

			.units		
General questions, discussion, and daily exam	Theoretical+ Practical	Radio activity and .radioactive isotopes	Radio activity and radioactive .isotopes	4	4rd
General questions, discussion, and daily exam	Theoretical+ Practical	Solutions and methods of expressing concentrations .colloidal solution	Solutions and methods of expressing concentrations colloidal .solution	4	5th
General questions, discussion, and daily exam	Theoretical+ Practical	The PH concept, Acid-base balance, chemical equilibrium, common ion	The PH concept, Acid-base balance, chemical equilibrium, common ion	4	6th
General questions, discussion, and daily exam	Theoretical+ Practical	Buffer and buffer systems of physiological importance in living .systems	Buffer and buffer systems of physiological importance in .living systems	4	7
General questions, discussion, and daily exam	Theoretical+ Practical	Blood, blood constituents, body fluids, regulation of blood Ph and body	Blood, blood constituents, body fluids, regulation of blood Ph and body	4	8
General questions, discussion, and daily exam	Theoretical+ Practical	Water and electrolyte balance – osmotic pressure of body fluids, control of total electrolytes and body .fluids	Water and electrolyte balance – osmotic pressure of body fluids, control of total	4	9

			electrolytes and body .fluids		
General questions, discussion, and daily exam	Theoretical+ Practical	Carbohydrates classification reactions, main carbohydrates in .human body	Carbohydrates classification reactions, main carbohydrates in human .body	4	10
General questions, discussion, and daily exam	Theoretical+ Practical	Metabolism of carbohydrates, blood glucose factors controlling glucose .level in blood	Metabolism of carbohydrates, blood glucose factors controlling glucose level in .blood	4	11
General questions, discussion, and daily exam	Theoretical+ Practical	Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance .curve	Glucose abnormalities, diabetes mellitus, ketosis, glycosuria, glucose tolerance .curve	4	12
General questions, discussion, and daily exam	Theoretical+ Practical	Lipids, classification, derived lipids, .compound, lipids	Lipids, classification, derived lipids, compound, .lipids	4	13
General questions, discussion, and daily exam	Theoretical+ Practical	Lipid metabolism, lipid .abnormalities	Lipid metabolism, lipid .abnormalities	4	14

General questions, discussion, and daily exam	**Theoretical+ Practica**	**Proteins, classification, functions, peptide bonds, amino acids, .chemical reactions**	**Proteins, classification, functions, peptide bonds, amino acids, chemical .reactions**	**4**	**15**
General questions, discussion, and daily exam	**Theoretical+ Practical**	**Scope of biochemistry in health and disease, cell and cell .constituents**	**Scope of biochemistry in health and disease, cell and cell .constituents**	**4**	**1st**

Course Evaluation

Making an amendment to the study plan so that the curriculum is intended for female students in the anesthesia department and linking the general concepts in the curriculum to the department's specialization

Learning and teaching resources

Atkins' Physical Chemistry **Organic Chemistry by Clayden** **Basics of biochemistry**	**Required prescribed books**
Chem Libretexts **Nature Chemistry** **Nature Biotechnology**	**Main references (sources)**
Lehninger Principles of Biochemistry	**A- Recommended books and references (scientific journals, reports,...)**

Stryer Biochemistry	
Journal of Biological Chemistry **Google Scholar**	**...B - Electronic references, Internet sites**

4. Course Name:
Biochemistry
5. Course Code:
6. Semester / Year:
second semester/ first year
7. Description Preparation Date:
25/2/2025
8. Available Attendance Forms:
9. Number of Credit Hours (Total) / Number of Units (Total)
3 hours of theory (2 units) + 2 hours of practical (1 unit) = 5 hou * 15 weeks = 75 / (4 units)
10. Course administrator's name (mention all, if more than one name)
Name: **M.M. Kadhim Adnan Ali Kadhim** Email: Name: M.M Abeer Jasim sahib Email:
11. Course Objectives

Course Objectives	C1- Contributing to strengthening relations between students. C2- Emphasis on strengthening the relationship between students and faculty members.

12. Teaching and Learning Strategies	
Strategy	1- Using cooperative learning style. 2- Discussion sessions on different topics. 3- Clinical training. 4- Theoretical and practical lectures. 5- Modern means related to education. 6- Student researches and participation in scientific trips> 7- Accreditation the exams Daily ,monthly and quarterly.

13. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation

		Outcomes	name	method	method
1,2	10	The student learns about carbohydrates, their importance, types, and the function of each type	Metabolism of protein abnormalities	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests
3,4	10	The student learns about carbohydrate metabolism, their importance, types, and the function of each type	Enzymes, definition, classification, general properties, function	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests
5	5	The student learns about the Krebs cycle and how to obtain energy	Factors affecting enzymes activity, enzyme	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly

			inhibition		Tests
6	5	The student learns about fats, their importance, types, and the function of each type	Enzymes in clinical diagnosis.	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests
7,8	5	The student learns about how fats are digested and absorbed	Enzymes in clinical diagnosis.	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests
9,10	10	The student learns about kidney functions and the factors affecting them	Vitamins and coenzymes, fat soluble vitamins, water soluble vitamins.	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests
11,1	10	The student	Nutrition and	Theoretical	Daily

		learns about the chemistry of enzymes, their types, and their functions	energy requirements	lecture using PowerPoint	Tests Reports Cossets Monthly Tests
13	5	The student learns about liver enzymes, how to measure them, and their functions	Hormones, definition, chemical nature, steroid hormones, proteins, amines.	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests
14	5	The student learns about the classification of enzymes, how to measure them, and their functions	Lipid metabolism, lipid abnormalities.	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests
	5	The student learns about the	Formation and	Theoretical lecture using	Daily Tests

15		general urine analysis and how to perform it	composition of urine, changes in urine volume, specific gravity, constituents..	PowerPoint	Reports Cossets Monthly Tests

14. 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

Theoretical Exam 15%

Written Assignments 5%

Practical Exam 10%

Seminar Presentation 10%

Final Theoretical Exam 40%

Final Practical Exam 20%

Total 100%

15. Learning and Teaching Resources

Required textbooks (curricular books, if any)	1. Amend, J.R., et.al, General, Organic,Biological Chemistry. New York, Saunders college publishing, 1993 .
Main references (sources)	1. Amend, J.R., et.al, General, Organic,Biological Chemistry. New

	York, Saunders college publishing, 1993 . Textbook of Biochemistry for Medical Students 8th Edition by M.D. Vasudevan, D. M. (Author), M.D. S., Sreekumari (Author), M.D.Vaidyanathan, Kannan (Author) 2016 3. Textbook of Biochemistry with Clinical Correlations, 7th EditionThomas M. Devlin (Editor) 2010
Recommended books and references (scientific journals, reports…)	1- Delegating students, especially the firstones, to developed countries 2- Cooperation between Iraqi universities for the purpose of updating the syllabus andthe course on a continuous periodic basis
Electronic References, Websites	PubMed ،UpToDate

1. Course Name
Computer prin
2. Semester /year
Semester
3. Data this description prepared
2024/9/1
4-Available attendance forms
Lectures
5. Number of study hours (total) / Number of units (total)
2 hours
6-Name of course leader (if more than one name is provided)
Assist lecture. Muhammad Ghazi Khasaf
Course objectives

- The ability to analyze and apply what he learned practically on the computer. - The evaluation is done by presenting the material to the students in the laboratory and then applying it by them.	Course objectives
Teaching and learning strategies	
- General and transferable skills (other skills related to employability and personal development). 1- Use PowerPoint to present the material. 2- Use pre-prepared files with some exercises to test the extent to which students have received information related to the course. 3- Involving all students in classroom participation by preparing oral dialogues within the specialization. 4- Using smart screens to solve some exercises by the teacher with the participation of the students.	Strategy

5. Course structure

Evaluation method	Teaching method	Unit name/topic	Required learning outcomes	watches	week
Daily participation and monthly exams	-Use the screen	Computer Fundamentals Computer Concept , Computer Life Cycle Phases Evolution of computer generations		3	1
-Form some sentences in a row	Screen usage - Some questions from	Advantages of computers and their areas of use. Classification of		3	2

-Monthly exams	methodological references	computers in terms of purpose, size, and data type.			
Daily and monthly exam	- Use the screen to solve exercises related to the topic. Methodological references	Computer components Computer Components Computer components and hardware parts of the computer software entities		3	3
Daily and monthly exams	Use of the screen Methodological references	Your Personal Computer: Computer Security Concept and Software Licensing		3	4
brainstorming Daily and monthly exams	Use the screen to display slides Explanatory video with examples Methodological references	Computer security and software licensing Computer Safety & Software Licenses		3	5
Classroom questions and daily and monthly exams	Use of the screen Methodological references	Ethics of the electronic world, forms of violations, computer security , computer privacy		3	6

Raising classroom questions Daily and monthly exams	Use of the screen Methodological references	Computer software licenses and their types, intellectual property, electronic hacking, malware, the most important Steps to protect against hacking, computer damage to health		3	7
Daily test monthly exams	Use the screen to display slides with an explanatory video. Methodological references	Systems Operating Systems Definition of operating system, functions, Goals, classification examples For some operating systems		3	8
Use brainstorming Monthly test	Use of the screen Explanatory video Methodological references supported by examples	Operating systems Windows operating system		3	9
write some sentences Daily and monthly testing	Use the screen to display PowerPoint Methodological references	Desktop components Start menu taskbar		3	10
Raising classroom questions monthly exams	Using the screen to show some of the body's activities	Folders and files Icons		3	11

	Methodological references supported by some drawings				
Daily and monthly exam	- Use the screen to solve exercises related to the topic. Methodological references	Perform operations on windows desktop wallpapers		3	12
Daily and monthly exams	Use of the screen Methodological references	Control Panel Windows Control Panel Groups ((Category		3	13
Daily and monthly exam	- Use the screen to solve exercises related to the topic. Methodological references	Defragment control panel , organize files inside the computer, install and delete programs.		3	14
Daily and monthly exam	- Use the screen to solve exercises related to the topic. Methodological references	Some common computer settings and conditions, printer management, time and date setting, disk maintenance Primary		3	15
Course Evaluation					
Use explanatory videos, raise questions, clarify the correct answers, and correct the wrong ones to					

benefit from mistakes so that they are not repeated in the future, in addition to To organize classroom participation for dialogue between students using useful phrases and sentences within the framework of scientific and methodological specialization.

Learning and teaching resources

Computer basics and office applications	Required textbooks
Yusr Al-Mustafa Science Series: Computer and Internet Basics, Office 2010, Dr. Ziad Muhammad Abbud, Dar Al-Doctor for Publishing and Distribution, Baghdad 2013	Main references (sources)
1-Computer literacy BASICS 2012, LeBlanc, Brandon. "Alcoser look at the, windows 7. 2009 .2-Computing Fundamentals, Innovative training works USA, Inc, 2006	Recommended books and references (scientific journals , Reports,)
https://www.agitraining.com/books/microsoft-officebooks/word-2010-digital-classroom-book	- Electronic references, websites...