Course description form

Teacher's: Theoretical parts Dr. Noor Dehyaa Hassan

Practical parts Ban Jassim Sadoon

Course Name: Physiology

Course Description

This course description provides a summary necessary to understand the characteristics of the course and the learning outcomes the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available.

1-Educational institution	Al Zahraa University of women College of health Techninology
2-Scientific Department/Center	Anesthesia department
3-Course name/code	
4-Available attendance forms	Lectures
5-Semester/year	First Semester 2025-2024
6-Number of study hours (total)	Official working hours
7-Date this description was prepared	30-11-2024
8-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. - To distinguish between normal and

	abnormal functions of different body systems - Expanding knowledge through periodicals, medical books and the Internet

9-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives Students learned the physiology of the body and its working mechanism from the theoretical side and learned about physiological tests from the practical side
B - The skills objectives of the course Methods of dealing with laboratory animals and scientific equipment - How to use chemical and physical materials - Developing students' cognitive skills and deepening the spirit of research and discovery - Acquiring human clinical examination skills
C- Emotional and value goals make Learning the basics of human physiology and its various vocabulary. - Deepening the student's self-confidence - Creating a creative professor who loves the teaching profession - Developing students' experimental skills and deepening the spirit of cooperation, teamwork and exploration - Stimulating and bringing out the energy within female students - Stimulating the feeling of the importance of learning among female students
D - Transferable general and qualifying The student should cooperate with his colleagues and professors in an atmosphere of friendliness and understanding -2 To work with his peers as a team

-3 To interact with them on scientific trips and learning methods 4- Use interactive explanation by using the smart interactive whiteboard
Teaching and learning methods explain the aims and objective of lecture give some clinical problems and encourage for seminar presentation by students
Evaluation methods by different examination in same lecture and in monthly time

10- Structure of the course /Theoretical syllabus

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 ,	Nerve cells, shape , type , structure ,	theoretical lecture	Daily exam

		impulse , signal	impulse , signal		
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 , HR conductive	Cardiovascular system , heart valve cycle , HR conductive	Theoretical Lecture	Daily exam
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 exchange and	Oxygen transport exchange and	Theoretical Lecture	Daily exam

Structure of the course /practical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1st	2	The microscope, type, parts, how to use it.	The microscope, type, parts, how to use it.	Practical lectures	Daily exam
2nd	2	Hematology, collection of blood, capillary blood ; venous blood; plasma and serum.	Hematology, collection of blood, capillary blood ; venous blood; plasma and serum.	Practical lectures	Daily exam
3rd	2	Haemoglobin estimation by Cyanamithaemoglobin method (Photometer method).	Haemoglobin estimation by Cyanamithaemoglobin method (Photometer method).	Practical lectures	Daily exam Daily exam

4th	2	Hemoglobin estimation by acid heamatin method	Hemoglobin estimation by acid heamatin method	Practical lectures	Daily exam
5th	2	Packed cell volume (P.C.V).	Packed cell volume (P.C.V).	Practical lectures	Daily exam
6th	2	Red blood cells count.	Red blood cells count.	Practical lectures	Daily exam
7th	2	Total leukocyte count	Total leukocyte count	Practical lectures	Daily exam
8th	2	Reticulocyte count test	Reticulocyte count test	Practical lectures	Daily exam
9th	2	Normal blood standard	Normal blood standard	Practical lectures	Daily exam
10th	2	Blood smear; staining.	Blood smear; staining.	Practical lectures	Daily exam
11th	2	Differential leukocyte count (types of W.B.C.).	Differential leukocyte count (types of W.B.C.).	Practical lectures	Daily exam

12th	2	Study of morphology of red blood cell.	Study of morphology of red blood cell.	Practical lectures	Daily exam
13th	2	Scientific movies show of blood	Scientific movies show of blood	Practical lectures	Daily exam
14th	2	Erythrocyte sedimentation rate by westergren method	Erythrocyte sedimentation rate by westergren method	Practical lectures	Daily exam
15th	2	E.S.R. by wintrod method.	E.S.R. by wintrod method.	Practical lectures	Daily exam

10- Infrastructures	
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

11- Course development plan
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

Course description form

Teacher's: Theoretical parts Dr. Noor Dehyaa Hassan

Practical parts Ban Jassim Sadoon

Course Name: Physiology

Course Description

This course description provides a summary necessary to understand the characteristics of the course and the learning outcomes the student is expected to achieve, demonstrating whether he or she has made the most of the learning opportunities available.

1-Educational institution	Al Zahraa University of women College of health Techninology
2-Scientific Department/Center	Anesthesia department

3-Course name/code	
4-Available attendance forms	Lectures
5-Semester/year	Second Semester 2025-2024
6-Number of study hours (total)	Official working hours
7-Date this description was prepared	1-3-2025
8-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. - To distinguish between normal and abnormal functions of different body systems - Expanding knowledge through periodicals, medical books and the Internet

9-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives Students learned the physiology of the body and its working mechanism from the theoretical side and learned about physiological tests from the practical side
B - The skills objectives of the course

Methods of dealing with laboratory animals and scientific equipment - How to use chemical and physical materials - Developing students' cognitive skills and deepening the spirit of research and discovery - Acquiring human clinical examination skills
C- Emotional and value goals make Learning the basics of human physiology and its various vocabulary. - Deepening the student's self-confidence - Creating a creative professor who loves the teaching profession - Developing students' experimental skills and deepening the spirit of cooperation, teamwork and exploration - Stimulating and bringing out the energy within female students - Stimulating the feeling of the importance of learning among female students
D - Transferable general and qualifying The student should cooperate with his colleagues and professors in an atmosphere of friendliness and understanding -2 To work with his peers as a team -3 To interact with them on scientific trips and learning methods 4- Use interactive explanation by using the smart interactive whiteboard
Teaching and learning methods explain the aims and objective of lecture give some clinical problems and encourage for seminar presentation by students
Evaluation methods by different examination in same lecture and in monthly time

10- Structure of the course /Theoretical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1st	2	Carbon dioxide transporting and exchange	Carbon dioxide transporting and exchange	Theoretical lectures	Daily exam

2nd	2	Lung volumes and capacity, types of Hypoxia	Lung volumes and capacity, types of Hypoxia	Theoretical lecture	Daily exam
3rd	2	Physiology of digestive system, gastric phases	Physiology of digestive system, gastric phases	Theoretical lectures	Daily exam
4th	2	Steps of digestion (carbohydrate, protein, fat digestion and absorption	Steps of digestion (carbohydrate, protein, fat digestion and absorption	Theoretical lectures	Daily exam
5th	2	Urinary system, renal functions, urine formation	Urinary system, renal functions, urine formation	theoretical lecture	Daily exam
6th	2	Role of kidney to maintain body fluids to regulate Blood pressure and acid base balance	Role of kidney to maintain body fluids to regulate Blood pressure and acid base balance	theoretical lecture	Daily exam
7th	2	Body temperature regulation and control	Body temperature regulation and control	theoretical lecture	Daily exam
8th	2	Nervous system, CNS brain function and centers	Nervous system, CNS brain function and centers	Theoretical lecture	Daily exam

9th	2	Spinal cord, CSF, Spinal reflexes	Spinal cord, CSF, Spinal reflexes	Theoretical Lecture	Daily exam
10th	2	PNS Autonomic and Sensory	PNS Autonomic and Sensory	Theoretical Lecture	Daily exam
11th	2	Endocrine system control of hormone, types and secretion	Endocrine system control of hormone, types and secretion	Theoretical Lecture	Daily exam
12th	2	Hormonal secretion form different glands	Hormonal secretion form different glands	Theoretical Lecture	Daily exam
13th	2	Reproductive system male and female reproductive	Reproductive system male and female reproductive	Theoretical Lecture	Daily exam
14th	2	Skeletal system physiology	Skeletal system physiology	Theoretical Lecture	Daily exam
15th	2	Special sense . physiology (vision, hearing, smell and taste	Special sense . physiology (vision, hearing, smell and taste	Theoretical Lecture	Daily exam

Structure of the course /practical syllabus

The Week	Hours	Required learning outcomes	Name of the unit/topic	Teaching method	Evaluation method
1st	4	ABO blood types; slide method; true method.	ABO blood types; slide method; true method	Practical lectures	Daily exam
2nd	4	Rh. Factor; slide method; tube .method	Rh. Factor; slide method; tube .method	Practical lectures	Daily exam
3rd	4	.Cross, match test	.Cross, match test	Practical lectures	Daily exam Daily exam
4th	4	Blood coagulation .tests; platelets count	Blood coagulation .tests; platelets count	Practical lectures	Daily exam
5th	4	The specific gravity .of blood and plasma	The specific gravity .of blood and plasma	Practical lectures	Daily exam
6th	4	Bleeding time (Ducks method, ivy's method). .	Bleeding time (Ducks method, ivy's .(method	Practical lectures	Daily exam

7th	4	Clotting time (capillary tube. (Method; lid method	Clotting time (capillary tube. (Method; lid method	Practical lectures	Daily exam
8th	4	Clotting time (lee .(and while method	Clotting time (lee .(and while method	Practical lectures	Daily exam
9th	4	Scientific movies show bleeding and .blood transfusion	Scientific movies show bleeding and .blood transfusion	Practical lectures	Daily exam
10th	4	Fragility test (R.B.C. fragility test)..	Fragility test (R.B.C. .(fragility test	Practical lectures	Daily exam
11th	4	Determination of .viscosity of blood	Determination of .viscosity of blood	Practical lectures	Daily exam
12th	4	Examination of the urine; urine collection physical examination	Examination of the urine; urine collection physical examination	Practical lectures	Daily exam
13th	4	The chemical examination of urine : urine .creatinin	The chemical examination of urine : urine .creatinin	Practical lectures	Daily exam
14th	4	The microscopic examination of urine	Erythrocyte sedimentation rate by westergren method	Practical lectures	Daily exam

15th	4	Pulmonary function test.	Pulmonary function test	Practical lectures	Daily exam

10- Infrastructures	
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

11- Course development plan
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

Course description form

Teacher's Name :

fatema salim aabed

khawla abbas hadi

Course Name: Biology

Course Description

Providing the student with general information about chemical and biological

1-Educational institution	AL- zahraa University(peace be upon her)for girls
2-Scientific Department/Center	Anesthesia techniques
3-Course name/code	General biology
4-Available attendance forms	Official working hours
5-Semester/year	Course
6-Number of study hours (total)	2hours per week
7-Date this description was prepared	Academic year 2024-2025
8-Course objectives	1-Understanding and studying the biology of the human body 2-introducing the student and giving him all the scientific information regarding the types of cells and found in the human body

9-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives: A- theoretical application to practical laboratory material. B-Statement of knowledge.
B - The skills objectives of the course:

A-Conduct oral and written evaluation . B- Operational reports.
C- Emotional and value goals: A- display data with graphics and pictures . B-Using information from a variety of sources including scientific fiels.
D - Transferable general and qualifying skills (other skills related to employability and personal development)
Teaching and learning methods: 1-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.
Evaluation methods: A-Conducting daily examinations for female students. B-Oral exam, practical report, monthly and final exams. C-Surprising inferential questions during the discussion between the two sides. D-Periodic visits from one colleague to another.

10- Structure of the course /Theoretical syllabus

The Week	Required learning outcomes	hours	Teaching method	Evaluation method
1st	The microscope, Introduction to	2	Using the screen-	Daily and

	Biology, The cells		scientific references	monthly exams
2-3	The Structure of cells , types , shape and size	2	Using the screen-scientific references	Daily and monthly exams
4-5	Movement in and out of cells: diffusion , osmosis , active transport	2	Using the screen-scientific references	Daily and monthly exams
6	Cell division: Amitosis, Mitosis and Meiosis	2	Using the screen-scientific references	Daily and monthly exams
7-8	Nucleic acid: DNA and RNA, DNA Replication	2	Using the screen-scientific references	Daily and monthly exams
9	Protein biosynthesis	2	Using the screen-scientific references	Daily and monthly exams
10-11	Human body tissues: Epithelial tissues	2	Using the screen-scientific references	Daily and monthly exams
12-13	Muscular and Nervous tissues	2	Using the screen-scientific references	Daily and monthly exams
14	Connective tissues: Bone and cartilage	2	Using the screen-scientific references	Daily and monthly exams
15	Blood (R.B.C and WBC) and	2	Using the screen-scientific references	Daily and monthly exams

	lymph			

10- Infrastructures	
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	

11- Course development plan

Course description form

Teacher's Name :

fatema salim aabed

khawla abbas hadi

Course Name: Biology

Course Description

Providing the student with general information about chemical and biological analyzes and the principles of laboratory diagnosis pointing to the it's application and clinical diagnosis with the results of laboratory tests.

1-Educational institution	AL- zahraa University(peace be upon her)for girls
2-Scientific Department/Center	Anesthesia techniques
3-Course name/code	General biology
4-Available attendance forms	Official working hours

5-Semester/year	Course
6-Number of study hours (total)	2hours per week
7-Date this description was prepared	Academic year 2024-2025
8-Course objectives	1-Understanding and studying the biology of the human body 2-introducing the student and giving him all the scientific information regarding the types of cells and found in the human body

9-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives: A- theoretical application to practical laboratory material. B-Statement of knowledge.
B - The skills objectives of the course: A-Conduct oral and written evaluation . B- Operational reports.
C- Emotional and value goals: A- display data with graphics and pictures . B-Using information from a variety of sources including scientific fiels.
D - Transferable general and qualifying skills (other skills related to employability and personal development)

Teaching and learning methods: 1-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.
Evaluation methods: A-Conducting daily examinations for female students. B-Oral exam, practical report, monthly and final exams. C-Surprising inferential questions during the discussion between the two sides. D-Periodic visits from one colleague to another.

10- Structure of the course /Theoretical syllabus

The Week	Required learning outcomes	hours	Teaching method	Evaluation method
1st	The microscope, Introduction to Biology, The cells	2	Using the screen-scientific references	Daily and monthly exams
2-3	The Structure of cells , types , shape and size	2	Using the screen-scientific references	Daily and monthly exams
4-5	Movement in and out of cells: diffusion , osmosis , active	2	Using the screen-scientific references	Daily and monthly exams

	transport			
6	Cell division: Amitosis, Mitosis and Meiosis	2	Using the screen-scientific references	Daily and monthly exams
7-8	Nucleic acid: DNA and RNA, DNA Replication	2	Using the screen-scientific references	Daily and monthly exams
9	Protein biosynthesis	2	Using the screen-scientific references	Daily and monthly exams
10-11	Human body tissues: Epithelial tissues	2	Using the screen-scientific references	Daily and monthly exams
12-13	Muscular and Nervous tissues	2	Using the screen-scientific references	Daily and monthly exams
14	Connective tissues: Bone and cartilage	2	Using the screen-scientific references	Daily and monthly exams
15	Blood (R.B.C and WBC) and lymph	2	Using the screen-scientific references	Daily and monthly exams

10- Infrastructures	
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	

11- Course development plan

Course description form

Teacher's Name: Assist Lect. Zahraa Hameed Jaber
Course Name: English Language
: Course Description

1-Educational institution	Al-Zahra University (peace be upon her) educational institution for girls
2-Scientific Department/Center	Anesthesia Techniques
3-Course name/code	English language course
4-Available attendance forms	Official Working Hours
5-Semester/year	Course System
6-Number of study hours (total)	8 Hours per week
7-Date this description was prepared	The academic year 2024-2025

9-Course outcomes and teaching, learning and evaluation methods
A- Cognitive objectives 1- Learning the language and the ability to use it through classroom participation, including dialogue between students within and outside their specialization. 2-The student will be able to use the language in writing graduation research.
B - The skills objectives of the course 1-Conduct a monthly and written evaluation. 2- Preparing oral dialogues.
C- Emotional and value goals 1-Display the material in the form of PowerPoint (slides) or a file. 2- Use the specified curriculum in addition to some other sources to support the topic.
D - Transferable general and qualifying 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 receive information related to the course. 3- Showing medical videos that include interviews within the student's specialty. 4- Involving all female students in classroom participation by preparing oral dialogues within their specialization. 5- Using smart screens for the purpose of solving some exercises by the teacher with the participation of the female students.
Teaching and learning methods Using some important grammatical phrases to form some class discussions within the students' specialization.
Assessment Methods Using some important grammatical phrases to form some class discussions within the students' specialization.

Teaching Method

		Lecture + Practical Exercises	Simple Present, Simple Past, Present Continuous	8	1-2
		Interactive Exercises	Question Words (what, where, why…)	8	3
		Group Discussion	Cardinal Numbers / Countries / Arranging Letters	8	4-5
		Using Practical Examples	Medical Abbreviations	8	6
		Visual Presentation	Punctuation Marks	8	7
		Using Practical Examples	Spelling of Medical Terms	8	8-9
		Word Analysis	Suffixes, Prefixes, Root	8	10
		Role-play + Interactive Exercises	Body Structure, Planes of the Body	8	11-12
		Guided Video + Interactive Review	Orientation and Direction Terms	8	13
		Guided Presentation + Interactive Review	Body Position	8	14
		Guided Presentation + Interactive Activities	Body Activities	8	15

10- Infrastructures	
A-Required prescribed books	Headway Plus/ Beginners New Student Book
1-Main references (sources)	Headway Plus/ Beginners New Key Words Book
2-Recommended books and references (scientific journals, reports,...)	
B - Electronic references, Internet sites...	

11- Course development plan
Using explanatory videos, raising questions, clarifying correct answers, and correcting incorrect ones to benefit from mistakes so that they are not repeated in the future, in addition to organizing classroom participation for dialogue between students using useful phrases and sentences within the framework of scientific and methodological specialization.

Course description form

:Teacher's Name:dr.Zahraa Saleh MahdiCourse

Description: This course description provides a necessary summary of the most important characteristics of general anatomy and links it to the course. The learning outcomes that the student is expected to achieve, proving whether he has made the most of the available learning opportunities, must be linked to the program

Name :anatomy

1-Educational institution	Al Zahraa University of womenCollege of health Techninology
2-Scientific Department/Center	Anesthesia department
3-Course name/code	anatomy
4-Available attendance forms	Full time attendance
5-Semester/year	Semester
6-Number of study hours(total)	6 h (in week)
7-Date this description was prepared	26/11/2023
8-Course objectives	The course aims for the student to be familiar with the anatomy of the human body, organs, and tissues, as well as to know the relationship between them.

A-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

B- The skills objectives of the course.

1- Gaining skill and experience in educational and health programs.

2- Gaining an understanding of the body's anatomy.

3 - Acquiring skills in understanding the parts of the body and the systems related to each other anatomically

Teaching and learning methods

1-Using theoretical lectures in college classrooms.

2- Watching anatomical videos and posters in the laboratory to teach the student in person.

3- Teaching the student the concepts of general anatomy, in addition to adopting additional sources to enrich the lectures with modern concepts of anatomy.

Evaluation methods

1 Homework

-2 Daily exams

-3 Reports

-4 Daily attendance

-5 Participation in lectures

-6 Skills and speed of completing tasks

-7 monthly exam score

The student is evaluated based on his success in understanding the scientific material, practical training in the laboratory, and using skeletons or dolls to learn about the body's systems anatomically.

C- Emotional and value goals

1 Opening the door to dialogue between the professor and the students.

-2 The student knows how to discuss constructively and objectively by asking scientific questions

3- Adopting the oral examination method after the end of the lecture or before starting the lecture
Teaching and learning methods 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 *Using theoretical lectures in the classroom via data show *Watching scientific videos, posters, and detailed explanations between the professor and the student D - Transferable general and qualifying skills (other skills related to employability and personal development). -1 The ability to convey ideas 2- Opening new horizons for the student and clarifying the relationship between the practical and theoretical aspects -3 The ability to form research teams and teamwork 4-Enhancing self-confidence by presenting and discussing the report

Theoretical syllabus .10					
		Subject		hours	week
Examination daily and .monthly	Practical and theoretical	Introduction, anatomical terms	Transferable general and qualifying skills	6	1

Examination daily and monthly	Practical and theoretical	Body cavities and its organs	=	6	2
Examination daily and monthly	Practical and theoretical	Superficial anatomy of human body	=	6	3
Examination daily and monthly	Practical and theoretical	human body tissues; types and . characteristic	=	6	4
Examination daily and monthly	Practical and theoretical	Skin anatomy and its functions skin . color	=	6	5
Examination daily and monthly	Practical and theoretical	General skeletal stricture (Skull, and .(neck	=	6	6
Examination daily and monthly	Practical and theoretical	Vertebral column stricture, numbers .and its function	=	6	7
Examination daily and monthly	Practical and theoretical	Diaphragm and abdominal wall .muscles	=	6	8
Examination daily and monthly	Practical and theoretical	Anatomy of heart, wall, valve and its function	=	6	9
Examination daily and monthly	Practical and theoretical	Structure of blood vessels wall arteries, veins and .capillaries	=	6	10
Examination daily and monthly	Practical and theoretical	Lymphatic system – .lymph glands	=	6	11
Examination daily and monthly	Practical and theoretical	Respiratory system – upper respiratory .tract	=	6	12
Examination daily and monthly	Practical and theoretical	Respiratory system- lover respiratory .tract	=	6	13
Examination daily and monthly	Practical and theoretical	Alveoli- lungs- .pleural activity	=	6	14

Examination daily and monthly	Practical and theoretical	Upper and lower limb	=	6	15
Examination daily and monthly	Practical and theoretical	CNS structure and functions	=	6	1
Examination daily and monthly	Practical and theoretical	PNS spinal nervues	=	6	2
Examination daily and monthly	Practical and theoretical	Sensory and motor nerves systems	=	6	3
Examination daily and monthly	Practical and theoretical	GIT system; parts and structure of wall .and stomach	=	6	4
Examination daily and monthly	Practical and theoretical	Salivary gland structure , pancreases and Gall .Bladder	=	6	5
Examination daily and monthly	Practical and theoretical	Liver anatomy structure and functions	=	6	6
Examination daily and monthly	Practical and theoretical	Urinary system kidney, ureter, urinary bladder, urethra	=	6	7
Examination daily and monthly	Practical and theoretical	.Muscular system	=	6	8
Examination daily and monthly	Practical and theoretical	Reproductive system – male .genitalia	=	6	9
Examination daily and monthly	Practical and theoretical	Female reproductive organs	=	6	10
Examination daily and monthly	Practical and theoretical	Endocrine glands-anatomy and .function	=	6	11
Examination daily and monthly	Practical and theoretical	Endocrine glands-anatomy and .function	=	6	12
Examination daily	Practical and theoretical	Special sense anatomy	=	6	13

and monthly					
Examination daily and monthly	Practical and theoretical	Skeletal system anatomy	=	6	14
Examination daily and monthly	Practical and theoretical	The development and inheritance	=	6	15

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

11- Course development plan
1 Adopting a study plan that takes into account the academic accreditation standards for the specialization. -2 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. -3 The programmed pursuit of reaching the frontiers of science through contact with reputable universities and cultural exchange At the level of research, visits, or cultural exchange, gaining experience and theoretical knowledge of science. 4-Using modern means to develop the student's abilities

Course description form

Teacher's Name:Dr. Ahmed Diaa

:Teacher's Name:dr.Zahraa Mohmmed Hashim

Course Name :anatomy

Description: This course description provides a necessary summary of the most important characteristics of general anatomy and links it to the course. The learning outcomes that the student is expected to achieve, proving whether he has made the most of the available learning opportunities, must be linked to the program

1-Educational institution	Al Zahraa University of womenCollege of health Techninology
2-Scientific Department/Center	Anesthesia department
3-Course name/code	anatomy
4-Available attendance forms	Full time attendance
5-Semester/year	Semester
6-Number of study hours(total)	6 h (in week)
7-Date this description was prepared	14/3/2025
8-Course objectives	The course aims for the student to be familiar with the anatomy of the human body, organs, and tissues, as well as to know the relationship between them.

A-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

B- The skills objectives of the course.

1- Gaining skill and experience in educational and health programs.

2- Gaining an understanding of the body's anatomy.

3 - Acquiring skills in understanding the parts of the body and the systems related to each other anatomically

Teaching and learning methods

1-Using theoretical lectures in college classrooms.

2- Watching anatomical videos and posters in the laboratory to teach the student in person.

3- Teaching the student the concepts of general anatomy, in addition to adopting additional sources to enrich the lectures with modern concepts of anatomy.

Evaluation methods

1 Homework

-2 Daily exams

-3 Reports

-4 Daily attendance

-5 Participation in lectures

-6 Skills and speed of completing tasks

-7 monthly exam score

The student is evaluated based on his success in understanding the scientific material, practical training in the laboratory, and using skeletons or dolls to learn about the body's systems anatomically.

C- Emotional and value goals

1 Opening the door to dialogue between the professor and the students.

-2 The student knows how to discuss constructively and objectively by asking scientific questions

3- Adopting the oral examination method after the end of the lecture or before starting the lecture
Teaching and learning methods 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 *Using theoretical lectures in the classroom via data show *Watching scientific videos, posters, and detailed explanations between the professor and the student D - Transferable general and qualifying skills (other skills related to employability and personal development). -1 The ability to convey ideas 2- Opening new horizons for the student and clarifying the relationship between the practical and theoretical aspects -3 The ability to form research teams and teamwork 4-Enhancing self-confidence by presenting and discussing the report

Theoretical syllabus .10

		Subject		hours	week
Examination daily and .monthly	Practical and theoretical	Introduction, anatomical terms	Transferable general and qualifying skills	6	1

Examination daily and monthly	Practical and theoretical	Body cavities and its organs	=	6	2
Examination daily and monthly	Practical and theoretical	Superficial anatomy of human body	=	6	3
Examination daily and monthly	Practical and theoretical	human body tissues; types and . characteristic	=	6	4
Examination daily and monthly	Practical and theoretical	Skin anatomy and its functions skin . color	=	6	5
Examination daily and monthly	Practical and theoretical	General skeletal stricture (Skull, and .(neck	=	6	6
Examination daily and monthly	Practical and theoretical	Vertebral column stricture, numbers .and its function	=	6	7
Examination daily and monthly	Practical and theoretical	Diaphragm and abdominal wall .muscles	=	6	8
Examination daily and monthly	Practical and theoretical	Anatomy of heart, wall, valve and its function	=	6	9
Examination daily and monthly	Practical and theoretical	Structure of blood vessels wall arteries, veins and .capillaries	=	6	10
Examination daily and monthly	Practical and theoretical	Lymphatic system – .lymph glands	=	6	11
Examination daily and monthly	Practical and theoretical	Respiratory system – upper respiratory .tract	=	6	12
Examination daily and monthly	Practical and theoretical	Respiratory system- lover respiratory .tract	=	6	13
Examination daily and monthly	Practical and theoretical	Alveoli- lungs- .pleural activity	=	6	14

Examination daily and monthly	Practical and theoretical	Upper and lower limb	=	6	15
Examination daily and monthly	Practical and theoretical	CNS structure and functions	=	6	1
Examination daily and monthly	Practical and theoretical	PNS spinal nervues	=	6	2
Examination daily and monthly	Practical and theoretical	Sensory and motor nerves systems	=	6	3
Examination daily and monthly	Practical and theoretical	GIT system; parts and structure of wall .and stomach	=	6	4
Examination daily and monthly	Practical and theoretical	Salivary gland structure , pancreases and Gall .Bladder	=	6	5
Examination daily and monthly	Practical and theoretical	Liver anatomy structure and functions	=	6	6
Examination daily and monthly	Practical and theoretical	Urinary system kidney, ureter, urinary bladder, urethra	=	6	7
Examination daily and monthly	Practical and theoretical	.Muscular system	=	6	8
Examination daily and monthly	Practical and theoretical	Reproductive system – male .genitalia	=	6	9
Examination daily and monthly	Practical and theoretical	Female reproductive organs	=	6	10
Examination daily and monthly	Practical and theoretical	Endocrine glands- anatomy and .function	=	6	11
Examination daily and monthly	Practical and theoretical	Endocrine glands- anatomy and .function	=	6	12
Examination daily	Practical and theoretical	Special sense anatomy	=	6	13

and monthly					
Examination daily and monthly	Practical and theoretical	Skeletal system anatomy	=	6	14
Examination daily and monthly	Practical and theoretical	The development and inheritance	=	6	15

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

11- Course development plan
1 Adopting a study plan that takes into account the academic accreditation standards for the specialization. -2 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. -3 The programmed pursuit of reaching the frontiers of science through contact with reputable universities and cultural exchange At the level of research, visits, or cultural exchange, gaining experience and theoretical knowledge of science. 4-Using modern means to develop the student's abilities

Course description form

Assist lect\ Zainab Adil Ahmed

Medical Physics

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.

Al-Zahraa University (peace be upon her for girls)	1. Educational institution
Department of Anesthesia Techniques	2. Scientific department/center

Medical physics	3. Course name/code
In-person education	4. Available forms of attendance
First and second semester/first academic year	5. Semester/year
75hours	6. Number of study hours (total)
15\3\2025	7 .Date this description was prepared
Course objectives	
-1Giving the student an idea of the material he needs in his studies in the subsequent stages. -2Learn about some advanced concepts in physics and how to use those concepts in medical sciences. -3Identify some physical ideas and their applications	

-10Course outcomes and teaching, learning and evaluation methods
Cognitive objectives Helping students acquire basic information in the field of physics in a logical manner through: - 1Giving students an idea of the subject and its importance in the coming stages. - 2Study physical concepts and how to use them in medical sciences.
- The skills objectives of the course It helps students acquire appropriate skills in the field of physics, including: - 1Manual skills such as using physical equipment. - 2Skill in conducting experiments and achieving the desired results. -3Writing scientific research and reports.
Teaching and learning methods
- 1Sudden daily and continuous weekly tests. -2 Exercises and activities in the classroom. -3 Directing students to some websites to benefit from them.
Evaluation methods
Participation in the classroom. Provide activities Semester and final tests and activities.

Emotional and value goals Helping female students to acquire the ability to use the scientific method in thinking, accuracy, deducing scientific relationships, and moving towards experimental investigation into the validity of scientific laws.
Teaching and learning methods
•Managing the lecture in an applied manner linked to the reality of daily life to attract the student to the topic of the lesson without straying from the core of the topic so that the material is flexible and amenable to understanding and analysis. •Assigning the student to some group activities and duties. •Allocating a percentage of the grade to daily assignments and tests.
Evaluation methods
•Active participation in the classroom is evidence of the student's commitment and responsibility. •Commitment to the specified deadline for submitting assignments and research. •Semester and final tests express commitment and cognitive and skill achievement.
General and qualifying transferable skills (other skills related to employability and personal development). -1Developing the student's ability to deal with technical means. -2Developing the student's ability to deal with the Internet. -3Developing the student's ability to deal with multiple media. -4Developing the student's ability to dialogue and discuss.

.10Course 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	2nd -1st
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	9th-10th
General questions and discussion	Theoretical + practical	Physics of lung and breathing	Waves	4	11th-12th
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 discussion	Theoretical + practical	Physics of eye and vision , physics of ear and hearing	Magnetism	4	17-18
General questions and discussion	Theoretical + practical	Electricity within the body	Electrical	4	19-20
General questions	Theoretical + practical	Application of electricity ana	Magnetism and	4	21-22

and discussion		magnetism in medicine	electrical		
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

Infrastructure	
	-1Required prescribed books
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	Main references (sources)
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...

Course development plan
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.

Course description form

Teacher name: Theoretical part Assit.Lec. Kadhim Adnan Ali Kadhim

Practical part Assit.Lec.Abeer Jasim Sahib

Course name: General Chemistry

Course description

This course provides an overview of the definition and significance of biochemical indicators, highlighting their common applications in assessing tissue function. It then delves into the measurement of specific biochemical markers associated with the liver, kidneys, and heart, analyzing their roles from a pathological standpoint. Additionally, the course explores how these indicators can help diagnose diseases, monitor organ health, and evaluate the effectiveness of treatments. By understanding these biomarkers, students will gain insights into the interplay between biochemical processes and disease progression, equipping them with essential knowledge .for clinical and research settings

1-Educational institution	**Al-Zahraa University for Women**
2-Scientific Department/Center	**Anesthesiology Department**
3-Subject name/code	**general chemistry**
4-Available attendance forms	**Attendance**
5-Semester/year	**The first and second academic courses / first academic year**
6-Number of study hours (total)	**54 hours**
7-Date of preparation of this description	**16/11/2024**
8-Course objectives	**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.**

9-Course outcomes and teaching, learning and evaluation methods

A- Cognitive objectives:

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 molecules.

.B - The skills objectives of the course
Teaching the student how to identify chemical compounds and providing him with sufficient information that enables him to understand the vital activities taking place in the human body at the molecular level, and applying them with practical lessons and demonstrating the methods used in diagnosing some diseases, writing and preparing reports and scientific research, and .understanding the mechanics and methods of interaction

Teaching and learning methods:

Teaching and learning methods in biochemistry vary and depend on several :factors, including

.Students' level and cognitive abilities
.Course objectives
.Available capabilities
The most important methods of teaching and learning in biochemistry are the :following

Interactive Lecture: Presenting concepts in an organized manner, engaging students through questions and discussions, where the instructor explains the fundamental concepts and theories of the subject.
Inquiry-Based Learning: The instructor poses a scientific problem or question and encourages students to explore solutions through experiments or research.
Practical Applications: Practical applications are an effective way to link theoretical concepts to reality, where the instructor asks students to conduct experiments or practical projects.

Blended Learning: An educational approach that combines face-to-face and online distance learning, providing flexibility in delivering educational content and helping students learn effectively.

E-learning: E-learning is a modern and educational method, where students can learn through videos and simulation programs
.

Evaluation methods:

Evaluation methods vary in biochemistry, and depend on several factors,

:including

.Course objectives
.Students' level and cognitive abilities
.Available capabilities
:The most important assessment methods in biochemistry are the following

Written exams: Written exams are one of the most common assessment methods in biochemistry, as they are used to evaluate students' understanding of the basic .concepts and theories of the subject
Oral exams: Oral exams are an effective way to evaluate students' ability to solve .problems and apply concepts in practice
Projects and Reports: Projects and reports are effective ways to assess students' .ability to apply concepts in real-world contexts

Use a variety of assessment methods: It is best to use a variety of assessment .methods to assess different aspects of student learning

C- Emotional and value goals

The emotional and value objectives for learning biochemistry are to develop a set :of values, attitudes and behaviors among students, which include the following

Interest in life and nature: Studying biochemistry develops students' interest in life and nature, as it helps them understand the chemical processes that support .life
Critical thinking and problem solving: Studying biochemistry contributes to developing students' critical thinking and problem-solving skills, as it requires them to understand scientific concepts and theories and apply them to solve .problems
Social responsibility: Studying biochemistry contributes to the development of social responsibility among students, as it helps them understand the importance .of science in understanding the world and solving social problems
Respect and appreciation for diversity: Studying biochemistry develops respect and appreciation for diversity in students, helping them understand the .differences between living organisms

Teaching and learning methods
.Continuous daily surprise and weekly examinations
.Use the smart board
Use slideshow display
See you in the workshops

D - Transferable general and qualifying skills (other skills related to .employability and personal development)

Studying biochemistry contributes to students acquiring a set of general and :qualifying skills, which include the following

:General skills

Scientific Knowledge: Students gain a solid knowledge of life chemistry, .including basic concepts and theories, as well as practical applications
Critical Thinking and Problem Solving: Students gain critical thinking and problem-solving skills, as studying biochemistry requires students to understand .scientific concepts and theories and apply them to solve problems
Communication Skills: Students acquire communication skills, as studying .biochemistry requires students to communicate clearly and clearly with others
Collaboration Skills: Students gain collaboration skills, as studying biochemistry .requires students to work with others on projects and groups
:Qualifying skills

Research skills: Students acquire scientific research skills, as studying biochemistry requires students to use scientific research skills to understand and .apply scientific concepts
Innovation Skills: Students acquire innovation skills, as studying biochemistry requires students to think outside the box and propose new solutions to .problems
In addition to these skills, students can develop additional skills that may help :them in their professional or academic careers, such as

Technology skills: Students can use technology to enhance their learning, such as .using videos, educational games, and simulation software

D - Transferable general and qualifying skills (other skills related to .employability and personal development)

Studying biochemistry contributes to students acquiring a set of general and :qualifying skills, which include the following

:General skills

Scientific Knowledge: Students gain a solid knowledge of life chemistry, .including basic concepts and theories, as well as practical applications
Critical Thinking and Problem Solving: Students gain critical thinking and problem-solving skills, as studying biochemistry requires students to understand .scientific concepts and theories and apply them to solve problems
Communication Skills: Students acquire communication skills, as studying .biochemistry requires students to communicate clearly and clearly with others
Collaboration Skills: Students gain collaboration skills, as studying biochemistry .requires students to work with others on projects and groups
:Qualifying skills

Research skills: Students acquire scientific research skills, as studying biochemistry requires students to use scientific research skills to understand and .apply scientific concepts
Innovation Skills: Students acquire innovation skills, as studying biochemistry requires students to think outside the box and propose new solutions to .problems
In addition to these skills, students can develop additional skills that may help :them in their professional or academic careers, such as

Technology skills: Students can use technology to enhance their learning, such as using videos, educational games, and simulation software .

The structure of the course Theoretical syllabus					
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 units.**	**4**	**2nd**
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 concentratio ns 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 electrolytes and body fluids.**	**4**	**9**
General questions, discussion, and daily exam	**Theoretical+ Practical**	**Carbohydrates classification reactions, main carbohydrates in human body.**	**Carbohydra tes classification reactions, main carbohydrat es 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 carbohydrat es, 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**	**Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology.**	**Nucleic acids and their Expression, DNA Replication, Nutation, RNA Topology.**	**4**	**16**

Infrastructure	
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 **Stryer Biochemistry**	**A- Recommended books and references (scientific journals, reports,...)**
Journal of Biological Chemistry **Google Scholar**	**B - Electronic references, Internet sites...**

.10Course development plan
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

1. Course Name:	
Biochemistry	
2. Course Code:	
3. Semester / Year:	
second semester/ first year	
4. Description Preparation Date:	
25/2/2025	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
ours of theory (2 units) + 2 hours of practical (1 unit) = 5 hours * 15 weeks = 75 / (4 units)	
7. 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:	
8. Course Objectives	
Course Objectives	C1- Contributing to strengthening students relations between. C2- Emphasis on strengthening the students and relationship between faculty members.
9. 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.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation 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 inhibition	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly 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
11,12	10	The student learns about the chemistry of enzymes, their types, and their functions	Nutrition and energy requirements	Theoretical lecture using PowerPoint	Daily 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
15	5	The student learns about the general urine analysis and how to perform it	Formation and composition of urine, changes in urine volume, specific gravity, .constituents.	Theoretical lecture using PowerPoint	Daily Tests Reports Cossets Monthly Tests

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

Theoretical Exam 15%
Written Assignments 5%
Practical Exam 10%
Seminar Presentation 10%
Final Theoretical Exam 40%
Final Practical Exam 20%

Total 100%

12. 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	UpToDate ،PubMed

Instructor's name . - :assist lecture. Muhammad Ghazi Khasaf

Course Name: Computer Principles 1

Course Description

The student must be able to use basic office applications, create office files and documents, use the operating system, and understand the basics of working in a

Al-Zahraa University (peace be upon her) for Girls	Educational institution .1
Anesthesia techniques	Scientific Department / Center .2
Computer Principles	Course Name/Code .3
Official working hours	Available attendance forms .4
Courses	semester/year .5
hours per week3	Number of study hours (total) .6
2025-2024Academic year	Date this description was prepared .7
Course objectives .8 Providing the student with knowledge in managing and using various computer applications.	

- Course outcomes, teaching, learning and assessment methods9
A- Cognitive objectives - The ability to analyze and apply what he learned practically on the computer.1 - The evaluation is done by presenting the material to the students in the laboratory and then applying it by 2 them.
B - Course specific skill objectives. - 1 Direct questions and answers about the previous article - Analyzing the student's ability to comprehend through homework, which is carried out at home and stored on 2 discs to be displayed directly to the student to determine the extent to which they have learned from the previous lecture. - Show educational videos on the subject to consolidate the ability to learn.3
C- Emotional and value-based goals - Training the student on how to use the computer in a manner compatible with his cultural level.1 - Guiding the student on how to deal with social media sites.2
D - General and transferable skills (other skills related to employability and personal development). - Use PowerPoint to present the material.1 - Use pre-prepared files with some exercises to test the extent to which students have received information 2 related to the course. - Involving all students in classroom participation by preparing oral dialogues within the specialization.3 - Using smart screens to solve some exercises by the teacher with the participation of the students.4
Teaching and learning methods The theoretical and exploratory method involves presenting the material on a program, including PowerPoint, in the form of diagrams and images to engage the student and prevent boredom. The practical method involves applying what has been presented on a computer and conducting daily and monthly exams.
Evaluation methods - Monthly and final exams, in addition to evaluating oral dialogue between students.1 - Active presence and daily participation. 2

Theoretical syllabus .11					
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 -Monthly exams	Screen usage - Some questions from methodological references -	Advantages of computers and their areas of use. Classification of computers in terms of purpose, size, and data type.		3	2
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 Methodological references supported by some drawings	Folders and files Icons		3	11
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

infrastructure .10	
Computer basics and office applications	- Required textbooks1
Yusr Al-Mustafa Science Series: Computer and Internet Basics, Office , Dr. Ziad Muhammad Abbud, Dar Al-Doctor for Publishing and Distribution, 2010 Baghdad 2013	2- 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 .	A- Recommended books and references (scientific journals , Reports,)
https://www.agitraining.com/books/microsoft-officebooks/word-2010-digital-classroom-book	B - Electronic references, websites...

Curriculum Development Plan .11
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.

Course Description Form

Instructor's name . - :assist lecture .Muhammad Ghazi Khasaf

Course Name: Computer Principles 2

Course Description

The student must be able to use basic office applications, create office files and documents, use the operating system, and understand the basics .of working in a digital environment

university Al-Zahra) on it peace (For girls	The institution educational	.1
Techniques Anesthesia	Department The flag Right / The Center	.2
principles computer	name / code The decision	.3
work hours Message Right	Forms the audience Available	.4
Courses	the chapter / year	.5
3 hours weekly	number watches Academic) The Next (	.6
year Academic 2024-2025	date numbers this Description	.7
.8 Goals The decision Gain The student knowledge N Yes administration And use Applications computer Different		

-9 Outputs The decision and methods education and learning and evaluation
A- Objectives cognitive -1 ability on Analysis And application what Learn it In a way paternal uncle Yali on Calculator -2 that It is done Evaluation from during an offer The material for New Students N Yes The secret lord And then apply from Before them
for - Objectives Skills Private As scheduled . 1 - Questions and answers Mba sprinkle around The material previous 2 - analysis capacity The student on Comprehension from during home work Implement N Yes the house And store on tablets To display it before The student Mba sprinkle To know bezel what Learn it from The eraser Fresh previous

-3 show Clips video Educational especially By the material And that to Rabsikh ability on learning

C - Objectives emotional and the value

-1 training The student How to Use computer In a way Compatible with His level Culture N Yes

-2 directing The student How to Dealing with Locations Social

D - Skills Public and rehabilitation Movable) Skills Other Related With possibility Employment and development The old man Yes . -1 Use PowerPoint To display The material .

-2 a Use Files The one Dew pre- Equipped Some Exercises To test the extent to receive female students For information Private According to the decision The study Yes -3 I doubt all female students Yes Participation Safiya from during Preparing dialogues Oral within Specialization

4 - Use Screens smart For the purpose of solution some Exercises from before The teacher With the participation of female students

Methods education and learning

The method Theory And Nominate And that In width The material on the Program Including program PowerPoint on appearance plans And pictures of that To tighten attention The student And help him on non Feeling bored The method The process And represented by By applying what It was completed susceptible on Calculator And procedure Exams

Daily And monthly .

Methods Evaluation

-1 Exams monthly And the final In addition to evaluation Dialogue The lip Yes for New female students

-2 the audience actor And participation Daily .

Theoretical syllabus The decision Structure .10

road Evaluation	road education	name Unity / or the topic	Learning outcomes Required	watches	week
Participation Daily and exams monthly	- Use screen	writing Many texts By And training The student on procedure that Events .		3	1

- Formation some camel Safiya - Exams monthly	- Use screen - Some questions from the references methodology	training Student to work on texts In formats different And pull it on printer		3	2
exam You Right And monthly	- Use Screen to solve exercises Special to the topic of Methodological references	Training practical on Texts within The document . Give names to Companies or student And training The student on Search on name with New And replace it .		3	3
Exams Daily And monthly	Screen usage Methodologic al references	training The student on Page layout , Tab an offer Training on writing Texts		3	4
Storm gold N yen Exams Daily And monthly	Use the screen to display Slides video Explanation Yes with Examples the reviewer methodology	Give practical examples of inserting objects. Training On writing Texts In a way Ak lord Oh Rabafia		3	5
Questions Safiya and exams Daily And monthly	Screen usage Methodologic al references	Give practical examples of a set of pages. Tab drawers		3	6
stir Questions Safiya Exams Daily And monthly	Screen usage Methodologic al references	Tables Give practical examples of the table set.		3	7
a test You Right Exams monthly	Use the screen to display Slides with video Explanation Yes	Tables Give other practical examples of the table set.		3	8

	Methodological references				
Use of storm gold N yen Test Monthly	Use screen video Explanation Yes the reviewer methodology Supported With examples	training The student On a set of drawings Illustrative		3	9
writing some camel Test Today Right And the monthly	Use the screen to display PowerPoint Methodological references	drawers image Certain And assignment The student By procedure that Events		3	10
stir Questions Safiya Exams monthly	Use screen To state some events body Methodological references are supported by some Graphics	training The student On writing Texts Includes Symbols currency and letters Private and symbols Scientific And With it		3	11
exam You Right And monthly	- Use Screen to solve exercises Special to the topic of Methodological references	training The student on Create tables different with Enter Data training The student On writing Equations Includes Formulas Collection And depleted And lifting For the foundations and matrices In		3	12

		shapes Different			
Exams Daily And monthly	Screen usage the reviewer methodology	training on to open file new And store it on surface The office addition And editing Slices) rashiha address ,address with content ,address Flee Yes, content New , comparison, address only, rashiha empty, content with comment, image with comment . (addition And editing Types rashiha Contents (table, figure) Bya Nin , Forms and plans, photo, Pictures from Now I'm bored files video . (		3	13
exam You Right And monthly	- Use Screen to solve exercises Special to the topic of Methodological references	training on delete the Slices And transfer it And replay Arrange it . theme- add layout Master- of the application effectiveness addition Kinetics And control the time And repeat for the whole		3	14

		the Slices And in a way various per Rasheeha			

exam You Right And monthly	- Use Screen to solve exercises Special to the topic of Methodological references	addition per part from the rashiha Kinetics entrance And stability And exit and kinetics Other with adjust repetition And time And the rest Options . Save as PDF Adobe .. file the offer In the form of		3	15

.10 structure Infrastructure	
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.11 plan development The decision The study Yes

Use Videos Illustrative Exciting Questions And clarification Answers Correct And correction wrong To benefit from Mistakes Yes no Repeated Future In addition to to organize Contributions Safiya To dialogue with New students Using expressions And a camel Useful within framework Specialization The flag Right And the grace R Yes