Ministry of Higher Education and Scientific Research Scientific Supervision and Scientific Evaluation Apparatus Directorate of Quality Assurance and Academic Accreditation Accreditation Department College of education for pure sciences Department of biology



Academic Program and Course Description Guide

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

<u>Academic Program Description</u>: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

<u>Program Vision</u>: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

<u>Program Mission</u>: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

<u>Program Objectives</u>: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

<u>Teaching and learning strategies</u>: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: .. Al-Muthann University Faculty/Institute:College of Education For Pure Sciences Scientific Department: Biology Academic or Professional Program Name: B. Edu. in Biology Final Certificate Name: B. Edu. in Biology Academic System: Yearly Description Preparation Date: File Completion Date:

Signature: Head of Department Name: Ass.f. Prof. Dr. Dhay Al: Azeez Date: 6/10/2024

Signature: Scientific Associate Name: Prof. Dr. Mohamme Alsonn Date: 6/10/2024

The file is checked by: Mustafa Abbas Fadhel

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 8 /10/ 9024 Signature:



1. Program Vision

Program vision is written here as stated in the university's catalogue and website.

2. **Program Mission**

Program mission is written here as stated in the university's catalogue and website.

3. Program Objectives

General statements describing what the program or institution intends to achieve.

4. Program Accreditation

Does the program have program accreditation? And from which agency?

5. Other external influences

Is there a sponsor for the program?

6. Program Structure							
Program Structure	Number of	Credit hours	Percentage	Reviews*			
	Courses						
Institution							
Requirements							
College Requirements							
Department							
Requirements							
Summer Training							
Other							

* This can include notes whether the course is basic or optional.

7. Program Description							
Year/Level	Course Code	Course Name	Credit Hours				
			theoretical	practical			

8. Expected learning outcomes of the program					
Knowledge					
Learning Outcomes 1	Learning Outcomes Statement 1				
Skills					
Learning Outcomes 2	Learning Outcomes Statement 2				
Learning Outcomes 3	Learning Outcomes Statement 3				
Ethics					
Learning Outcomes 4	Learning Outcomes Statement 4				
Learning Outcomes 5	Learning Outcomes Statement 5				

9. Teaching and Learning Strategies

Teaching and learning strategies and methods adopted in the implementation of

the program in general.

10. Evaluation methods

Implemented at all stages of the program in general.

11. Faculty Faculty Members Academic Rank Specialization Requirements/Skills (if applicable) Number of the teaching staff

General	Special		Staff	Lecturer

Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

(Setting regulations related to enrollment in the college or institute, whether central admission or others)

13. The most important sources of information about the program

State briefly the sources of information about the program.

14. Program Development Plan

	Program Skills Outline														
		Required program Learning outcomes													
Year/Level	Course Code	Course Name	Basic or	Knowledge S		Knowledge Skills		Ethics							
		optional	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C 3	C4	

• Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

1. Course Name:	
GENERAL BIOLOGY	
2. Course Code:	
Bio 100	
3. Semester / Year:	
2024-2025	
4. Description Preparation Date:	
2024-2025	
5. Available Attendance Forms	
: Daily attendance	
6. Number of Credit Hours (Total) / Nur	mber of Units (Total):
γ hours (theoretical) + 2 hours (pract	
7. Course administrator's name (mer	ntion all, if more than one name)
Name: Pro.dr. yassir dakheel kremsh	alasadiy
Email: dr.yassiralasadiy@mu.edu.iq	
8. Course Objectives	
Course Objectives	Give a complete idea of zoology,
	botany and what has to do with other
	science
9. Teaching and Learning Strategies	
Strategy 1- Lecture, use of the blackboa	ard and presentation
2- Demonstration (using grap	hs, pictures and educational films
using a data projector)	
3- Interactive discussion	
4- Self-education	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	knowledge	Overview Historical review of the growth of biology	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the Classroom platform	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports
2	4	knowledge	Evolution of biology	====	====
3	4	knowledge	The importance of biology	====	====

			Duran share of Dialo su		
4	4	knowledge	Branches of Biology	====	====
5	4	knowledge	Characteristics of life	====	====
			Definition of qualities of life The main method of		
			construction of living matter		
6	4	knowledge	Classification systems	====	====
0	4	Knowledge	Classification systems		
7	4	knowledge	Classification of living	====	====
			organisms		
			Historical stages		
8	4	knowledge	Plant and animal classification	====	====
			bases		
•			Concept of species		
9	4	knowledge	Reproduction and growth in plant	====	====
10	4	knowledge	completed :Reproduction and	====	====
10	-	KIIOWIEuge	growth in plants		
11	4	knowledge	Reproduction and growth in	====	====
			animals		
12	4	knowledge	completed :Reproduction and	====	====
			growth in animals		
13	4	knowledge	Coordination in animals	====	====
14	4	knowledge	Coordination in Human	====	====
15	4	knowledge	Coordination in plants	====	====
16	4	knowledge	Evolution	====	====
			The most important concepts		
			of evolution		
17	4	knowledge	Theories of Evolution		====
			Lamarck Theory		
			Darwinism		
18	4	knowledge		====	====
			Evolution of low animals		
19	4	knowladga			
19	4	knowledge	Evolution of vertebrates		====
			Evolution of vertebrates		
20	4	knowledge		====	====
		_	Animal behavior		
21	4	knowledge	Nervous system and behavior	====	====
22	4	knowledge	Fatal and learner behavior	====	====
23	4	knowledge	Orientation in time and space	====	====
24	4	knowledge	Collective movement and	====	====
			migration		
25	4	knowledge	Monotony and the biological	====	====
		1 1 1	clock		
26	4	knowledge	Hierarchical Dominance in	====	====
27	A	lanowia data	Animal Groups		
27	4	knowledge	Ecology	====	====
			Some concepts of ecology		
28	4	knowledge	Biological spectrum -	====	====
			ecosystem (Biogeochemical		
			Cycles and relationships)		
		1	Cycles and relationships)		

29	4	knowledge	The human concept of ecology and its most important divisions , The concept of groups Population density	====	====
30	4	knowledge	Home ranges Ecological pyramids Major natural ecosystems	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 10 marks for the midterm exam) + 10 marks for daily preparation and daily tests + 5 marks for the first practical exam + 5 marks for the second monthly practical exam)

60 marks (20 marks final practical exam + 40 marks final theoretical exam)

12. Learning and Teaching Resources

<u>_</u>	
Required textbooks (curricular books, if any)	not available
Main references (sources)	General Zoology - for undergraduate - third edition Written by Dr. Mohammed Ammar Al-Rawi with a group of animal science professors Animal biology - Part II and III Written by Ahmad Hammad Al - Husseini and Amal 1995 Practical Plant Part I and II Written by Dr. Hazem Al-Alusi and Dr. Abdul Raouf Sayala 1989 The basics of modern ecology - authored by Dr. Kadhim Al – Mikdadi,2017
Recommended books and references (scientific journals, reports)	Biology - Reviewed and written by Prof. Dr. Hussein Ali Al-Saadi and Prof. Dr. Hussein Abdel Moneim Daoud University of Baghdad - 2005
Electronic References, Websites	Websites available on Google Chrome

1. Course Name:						
Plant Anatomy						
2. Course Code:						
Bio 101						
3. Semester / Year:						
2024-2025						
4. Description Preparation Date:						
2024-2025						
5. Available Attendance Forms						
: Daily attendance						
6. Number of Credit Hours (Total) / Number of Units (Total):						
\checkmark hours (theoretical) + 2 hours (practical) / 6 units						
7. Course administrator's name (mention all, if more than one name)						
Name: Mr. Asmaa Sahib Abdul Abbas						
Email: <u>asmaa.sahib@mu.edu.iq</u>						
8. Course Objectives						
Course Objectives Identify the parts of the plant, their functions, and the method of dissecting each part						
9. Teaching and Learning Strategies						
Strategy1- Delivering the Lecture and using the board. 2- Demonstration (using the data show- using educational images and videos) . 3- Interactive discussion. 4- Self-education.						

10.	10. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method		
1	4	knowledge	Introduction to plant anatomy	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and -Self- education (Open) Google Classroom Class on	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports		
2	4	knowledge	The difference	Lecture, using the board, delivery			

		between plant cells and animal cells	and Demonstration (using educational images and	
			interactive discussion and	
			(Open) Google Classroom Class on	
4	knowledge	Plant cell / General and chemical	Lecture, using the board, delivery and Demonstration	
		components / Functions	videos using the data show, interactive discussion and	
			(Open) Google Classroom Class on	
4	knowledge	roots / Root hairs /	and Demonstration	
		Epiderinis	videos using the data show, interactive discussion and	
			(Open) Google Classroom Class on	
4	knowledge	Internal structure of the stem/ skin /	Lecture, using the board, delivery and Demonstration	
		Vascular cylinder	videos using the data show, interactive discussion and	
			(Open) Google Classroom Class on	
4	knowledge	Protoplasm / Its components, functions	Lecture, using the board, delivery and Demonstration	
		Tunctions	videos using the data show, interactive discussion and	
			(Open) Google Classroom Class on	
4	knowledge	/ Golgi bodies / Endoplasmic reticulum	Lecture, using the board, delivery and Demonstration (using educational images and	
			videos using the data show, interactive discussion and -Self-education	
			(Open) Google Classroom Class on	
4	knowledge	Plastids / Their types, functions	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show,	
			interactive discussion and -Self-education (Open) Google Classroom Class	
4	knowledge	Ribosomes / Mitochondria /	Lecture, using the board, delivery	
		Lysosomes / Nucleus / Nucleoplasm / Vacuoles / Their	(using educational images and videos using the data show, interactive discussion and	
	4	4 knowledge 4 knowledge	4 knowledge Plant cell / General and chemical components / Functions 4 knowledge Internal structure of roots / Root hairs / Epidermis 4 knowledge Internal structure of the stem/ skin / Epidermis / Cortex / Vascular cylinder 4 knowledge Protoplasm / Its components, functions 4 knowledge // Golgi bodies / Endoplasmic reticulum 4 knowledge // Golgi bodies / Endoplasmic reticulum 4 knowledge // Solgi bodies / Endoplasmic reticulum 4 knowledge // Blastids / Their types, functions 4 knowledge Plastids / Their types, functions 4 knowledge Nitochondria / Lysosomes / Nucleus / Nucleoplasm / Its components, functions	4 knowledge Plant cell / General and chemical components / Functions (using educational images and videos using the board, delivery and Demonstration (Open) Google Classroom Class on (Using educational images and videos using the board, delivery and Demonstration (Using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class on (Open) Google Classro

			functions	-Self-education	
				(Open) Google Classroom Class	
10	4	knowledge	Crystals / Starch /	on Lecture, using the board, delivery	
	-		Difference between	and Demonstration	
				(using educational images and	
			cavities /	videos using the data show,	
				interactive discussion and -Self-education	
				(Open) Google Classroom Class	
				on	
11	4	knowledge		Lecture, using the board, delivery	
				and Demonstration	
			Theories of the	(using educational images and videos using the data show,	
			development of	interactive discussion and	
			Plant tissues	-Self-education	
				(Open) Google Classroom Class	
				on	
12	4	knowledge		Lecture, using the board, delivery	
				and Demonstration (using educational images and	
			Meristematic tissues	videos using the data show,	
			and their types	interactive discussion and	
				-Self-education	
				(Open) Google Classroom Class	
13	4	knowledge	Types of permanent	on Lecture, using the board, delivery	
15	-	Knowledge		and Demonstration	
			tissue and their	(using educational images and	
			shapes / Functions	videos using the data show,	
			of tissues	interactive discussion and	
				-Self-education (Open) Google Classroom Class	
				on	
14	4	knowledge	Perenchyma tissue /	Lecture, using the board, delivery	
			Collenchyma tissue,	and Demonstration	
			storage and aerial / Fibers	(using educational images and	
			FIDEIS	videos using the data show, interactive discussion and	
				-Self-education	
				(Open) Google Classroom Class	
				on	
15	4	knowledge		Lecture, using the board, delivery and Demonstration	
				(using educational images and	
			Connective tissues,	videos using the data show,	
			their types, locations and functions	interactive discussion and	
				-Self-education	
				(Open) Google Classroom Class on	
16	4	knowledge		Lecture, using the board, delivery	
-				and Demonstration	
			Primary epidermis	(using educational images and	
			and surrounding	videos using the data show,	
			epidermis	interactive discussion and -Self-education	
				(Open) Google Classroom Class	
				on	
17	4	knowledge	Skin tags, types	Lecture, using the board, delivery	

				and Demonstration (using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class	
18	4	knowledge	Guard cells and their types	on Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class on	
19	4	knowledge	Internal structure of the flower, its parts / its origin / fruits, their structure, origin	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class on	
20	4	knowledge	Pharma tissue / cork cambium and vascular cambium / sieve tube / companion cells	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class on	
21	4	knowledge	Xylem tissue / fibers, tracheids and regular tracheids / primary wood and secondary wood	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class on	
22	4	knowledge	Cambium / primary, fascicle, vascular / types of spring summer wood / fascicles and their types	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class on	
23	4	knowledge	Vascular cylinder / its types, wood is widespread Pores, annular pore wood/ core wood, soft wood	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and -Self-education (Open) Google Classroom Class on	
24	4	knowledge	Secretory cells and tissues, their origin / water stomata /	Lecture, using the board, delivery and Demonstration (using educational images and videos using the data show, interactive discussion and	

			external or human	-Self-education	
			glands / hairs /	(Open) Google Classroom Class	
			internal or spherical	on	
			_		
			glands		
25	4	knowledge	Tubular secretory	Lecture, using the board, delivery	
23	-	Knowledge	ducts / resin ducts,	and Demonstration	
			gum ducts /	(using educational images and	
			structures and milk	videos using the data show,	
			ducts, their types	interactive discussion and	
				-Self-education	
				(Open) Google Classroom Class	
	-	1		on	
26	4	knowledge		Lecture, using the board, delivery and Demonstration	
				(using educational images and	
			Flower structure	videos using the data show,	
				interactive discussion and	
				-Self-education	
				(Open) Google Classroom Class	
		1 1 1		on	
27	4	knowledge	Dissection and	Lecture, using the board, delivery and Demonstration	
			differentiation of	(using educational images and	
			flower parts of a	videos using the data show,	
			group of plants	interactive discussion and	
			different in shape, color, structure and	-Self-education	
			contents	(Open) Google Classroom Class	
				on	
28	4	knowledge		Lecture, using the board, delivery and Demonstration	
				(using educational images and	
				videos using the data show,	
				interactive discussion and	
				-Self-education	
				(Open) Google Classroom Class	
20		1 morel - d - c		0n	
29	4	knowledge	Dissection of a	Lecture, using the board, delivery and Demonstration	
			group of fruits of	(using educational images and	
			different plants and	videos using the data show,	
			differentiation of	interactive discussion and	
			differences in shape	-Self-education	
			and structure	(Open) Google Classroom Class	
20	A	Ime	Chudu anna -fals.	0n	
30	4	knowledge	Study some of the anatomical	Lecture, using the board, delivery and Demonstration	
			structures that	(using educational images and	
			plants have shown	videos using the data show,	
			to adapt to their	interactive discussion and	
			surrounding	-Self-education	
			environment	(Open) Google Classroom Class	
				on	

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	not available
Main references (sources)	Basics of Plant Anatomy / Dr. Badri Awad, Dr. Qaisar Najib
	Plant Anatomy Principles and Applications /Talib Awad Al-Kharji,Zahraa Bakr Muhammad Plant Anatomy/ Dr. Khazal Dabaa
Electronic References, Websites	

1. Course Name:				
Cell Bilogy				
2. Course Code:				
Bio 102				
3. Semester / Year:				
2024-2025				
4. Description Preparation Date:				
2024-2025				
5. Available Attendance Forms				
: Daily attendance				
6. Number of Credit Hours (Total) / Nu				
۲hours (theoretical) / Number of Ur				
7. Course administrator's name (me				
Name: Lecturer. dr. Fouad Qasim Ju	ıbair Al-Zayadi			
Email: <u>fouad.qasim@mu.edu.iq</u>				
8. Course Objectives				
Course Objectives Cell biology is considered one of the very important topics in the Department of Life Sciences due to the great importance is represents in knowing the cell's structures components, and the behavior of it divisions.				
9. Teaching and Learning Strategies	9. Teaching and Learning Strategies			
Strategy1- Lecture, use of the blackboard and presentation2- Demonstration (using graphs, pictures and educational films using a data projector)3- Interactive discussion 4- Self-education				

10. Co	10. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method		
1	1	knowledge	Modern theory of the cell	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports		

				using a data projector) -Interactive discussion -Self-education - Open educational classes using the Classroom platform	
2	2	knowledge	Comparison between eukaryote, prokaryote cells and viruses	====	====
3	2	knowledge	Chemical components of the cell	====	====
4	2	knowledge	Methods of studying cells - types of microscopes	====	====
5	2	knowledge	Cutting method - smear preparation - centrifugation	====	====
6	2	knowledge	Cellular membranes - a brief overview of the development of biological membranes	====	====
7	2	knowledge	Fluid mesaic model - the passage of materials through membranes	====	====
8	2	knowledge	Cytoplasmic vacuolar system	====	====
9	2	knowledge	Components of the cytoplasm - the endoplasmic reticulum, its types and functions - the Golgi apparatus	====	====
10	2	knowledge	Lysosomes - Microbodies and their types - Ribosomes	====	====
11	2	knowledge	Energy organelles	====	====
12	2	knowledge	Mitochondria	====	====
13	2	knowledge	Chloroplast	====	====
14	2	knowledge	Light reactions and carbon dioxide fixation	====	====
15	2	knowledge	Central bodies, cilia and flagella	====	====
16	2	knowledge	Types of genetic material	====	====
17	2	knowledge	Cloning of genetic material	====	====
18	2	knowledge	Chromosomes and their types	====	====
19	2	knowledge	Genetic expression of proteins (translation)	====	
20	2	knowledge	Cellular division	====	====
21	2	knowledge	Direct and non-mitotic division	====	====
22	2	knowledge	Mitosis	====	====
23	2	knowledge	Meiosis	====	====
24	2	knowledge	Reproductive cycle	====	====
25	2	knowledge	Study of the phenomenon of crossing over and genetic mutation		

26	2	knowledge	Regulating cell divisions - important factors	====	====
27	2	knowledge	Cancer cells - how they form and behave	====	====
28	2	knowledge	Study of cellular components under an electron microscope		====
29	2	knowledge	Animal tissues	====	====
30	2	knowledge	Types of animal tissues	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam+20 marks final practical exam)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	not available
Main references (sources)	Cell Biology - Gabriel Barhoum Aziz - University of Mosul
Recommended books and references	Cell Biolgy- Pollard (2017)
(scientific journals, reports)	
Electronic References, Websites	

1. Cours	e Name:			
Fungi				
2. Cours	e Code:			
Bio 302				
	ster / Year:			
2023-2024				
4. Descri	iption Preparation Date:			
2023-2024				
	ble Attendance Forms			
: Dail	y attendance			
6. Numb	er of Credit Hours (Total) / Nu	mber of Units (Total):		
2 hour	rs (theoretical) 2 hours(practi	cal)		
7. Cours	e administrator's name (mer	ntion all, if more than one name)		
Name	: lecturer israa hamdan			
	Email: israa.hamdan@mu.edu.	iq		
8. Course	e Objectives			
Course Objectives1- Teaching students about laboratory work and dealing with tools and chemicals 2- Teaching students to prepare solutions and perform chemical calculations 3- Providing students with the skill of scientific research into cause and effect 4- Teaching students some organic reactions				
9. Teaching and Learning Strategies				
StrategyEducation strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series				

10. Course Structure						
Week	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1	2	knowledge	Explanation of the material in detail	A student who	Weekly, monthly,	

	Review the article and	knows how to	daily, writter
	Connect it to life	handle dangerous	exams, and
		and toxic	the end-of-
	Questions and answers	chemicals	.year exam
	Cozas	He also knows	
		the correct	
		handling method	
		in the laboratory	
		He is good at	
		explaining	
		chemistry and	
		linking it to	
		biology, as he is a	
		life sciences	
		teacher	
		In addition to the	
		skill of chemical	
		calculations	
		We teach organic	
		reactions and	
		their benefits in	
		daily life	
====		<u>.</u>	
====			

The distribution is as follows: the first semester exam is 5%, the second semester is 5%, and the half year is 15%, the first semester practical exam is 5%, and the second semester practical exam is 5%, in addition to absences 3%.

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	Websites available on Google Chrome

1. Course Name:			
Geology			
2. Course Code:			
Bio 104			
3. Semester / Year:			
7.70_7.72			
4. Description Preparation Date:			
7.70_7.72			
5. Available Attendance Forms			
: Daily attendance			
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):		
Y hours (theoretical)			
7. Course administrator's name (me			
Name: Assist. Pro.dr. Nadia Hussein	Ali		
Email: <u>nadiasaoudi@mu.edu.iq</u>			
8. Course Objectives			
Course Objectives	Providing information about Earth science and the related natural processes that affect the Earth's crust and the Earth's interior, the composition of rocks, their surface and subterranean appearances, the processes affecting them, the methods of their formation, the economic minerals they contain, and how to search for and exploit them, as well as the methods of the presence of groundwater and petroleum, and the scientific methods for searching for them.		
9. Teaching and Learning Strategies			
Strategy 1- Lecture, use of the blackboard and presentation 2- Demonstration (using graphs, pictures and educational films using a data projector) 3- Interactive discussion 4- Self-education			

10. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1	2	knowledge	Branches of geology and their	-Lecture, use of the blackboard and	Theoretical, practical/oral and	

			relationship to other sciences	presentation	written examinations
				-Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the Classroom platform	(daily, monthly and midterm exam) and scientific reports
2	2	knowledge	Earth's structure and structure	====	====
3	2	knowledge	Earth covers Gas, water and lithosphere	====	====
4	2	knowledge	The interior of the earth: the crust, the core, and the core	====	====
5	2	knowledge	Elements that make up the crust	====	====
6	2	knowledge	Theories of the creation of the universe (theories of the solar system)		====
7	2	knowledge	Plate theory	====	====
8	2	knowledge	Minerals (natural properties of minerals, chemical composition of minerals)	====	====
9	2	knowledge	Classification of minerals	====	====
10	2	knowledge	Description of the most common minerals		====
11	2	knowledge	Rocks (types of rocks, rock cycle in nature, igneous rocks)		====
12	2	knowledge	Chemical composition of rocks	====	====
13	2	knowledge	Sedimentary rocks (weathering and erosion)	====	====
14	2	knowledge	Chemical and mineral composition	====	====
15	2	knowledge	Classification of sedimentary rocks	====	====
16	2	knowledge	Metamorphic rocks (types of metamorphic rocks, classification of metamorphic rocks)	====	====
17	2	knowledge	Geological time	====	====
18	2	knowledge	Fossils	====	====
19	2	knowledge	Metamorphic rocks (types of metamorphic rocks, classification of metamorphic rocks)		====
20	2	knowledge	Geological time	====	====
21	2	knowledge	Fossils	====	====
22	2	knowledge	Earthquakes	====	====
23	2	knowledge	Factors affecting the occurrence of earthquakes	====	====
24	2	knowledge		====	====
25	2	knowledge		====	====

26	2	knowledge	====	====
27	2	knowledge		
28	2	knowledge	====	====
29	2	knowledge	====	====
30	2	knowledge	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	not available
Main references (sources)	
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	Websites available on Google Chrome

Course name:Principles of Education. ۱۳	ش
codeThe decision: CREQ 101.14	
the chapter /Year:Semester 2024-2025.10	
Date of preparation of thisDescription: 19/1/2025.13	
AAvailable attendance forms: In-person lectures in classrooms	_
Number of study hours (total) / Number of units (total) 1 hour per week / 1 unit.	
Course Instructor Name/If more than one name is mentioned)	
Course Instructor Name(If more than one name is mentioned) .19 the name: M.M Nebras Traveler Thankful Email: nibrasmosafr@mu.edu.iq	
Goals The decision .20	
paring the student to know the concept of education and its objectives. Its functions and characteristics. *Introducing the student to the historical roots of education. udent's knowledge of economic, social and scientific foundations For education. *The student's knowledge of the child's life in Islamic law.	asics
Strategies education And learning .21	
Strategies education And learning .21 modern teaching strategies and methods including:MethodsTeaching and learning for development AFor strat	tegy
Strategies education And learning .21	

method	g	topic		at	week
	method			С	
				h	
				е	
				s	
- Questions Calendar.	creditation	larification Goals The material/	Knowing the term education		he week 1
Questions calendari	road -	concept of education and its	And education		The week 2
Assignment Students	Discussion	importance.	Historical foundations of education		The week 3
By writing Reports on	ctive -	racteristics and -	social basis		The week 4 The week 5
ndations of Education	Storm	functions of education.	Economic basis		The week 6
	Mental	orical growth of -	Scientific basis		The week 7
		education (education	The role of the child in Sharia		The week 8
			Islamic		The week 9 ne week 10
		mitive -Chinese-Greek-Egyptian-			Week 11
		nic - Media of Arab Thought and Media			Week 12
		Greek thought).			Week 13 Week 14
		al basis (educational -			Week 15
		role)			he week16
					he week17
		the family - the educational role of the school-Foundations			18 19
		cational cooperation between			20
		family and school).			
		nomic basis (the -			
		difference between			
		cation and development-			
		Motives for spending on			
		cation - Social and Economic			
		Development			
		elopment means-Economic			
		, return on education			
		cation financing-Primary sources			
		To finance education)			
		ntific basis (concept of -			
		science)			
		objectives - the importance of			
		scientific education - the method			
		ntific and its foundations and			
		racteristics of scientific research			
		iculties of the scientific method			
		in the social sciences.			

erminants of the s	cientific			
method in the social s	ciences.			
dren's rights in Islamic	-			
law				
w did the Messenger, pe	ace			
ipon him, deal with peo	ple			
in his tir	me?			
child-Islam and Cl	hild			
Education - Rig	ihts			
d in education-Principles	s of			
parent	ting			
The child in Islamic l	aw.			
role of the family and	the			
university in reduc	ing			
gative phenomena in soci	iety			
(drug phenomen	on)			
Course Evaluation. ۲۳				
distribution Degree from 100 According to Tasks The pers	son in charge With it The student like preparation Daily And tests			
	Daily Oral and exams Monthly and editorial and reportsetc			
	Exam of the monththe first/ 10 degrees1			
	Reportsweekly/ 2 degrees2			
	Attendance / 3 marks3			
	Second month exam / 15 points4			
	Third month exam/ 10 points5			
	ہ۔ ۔ Final exam / 60 marks.			
	sources Learning And teaching .24			
nothing	Books The reporter Required(methodology that I found)			
ninations in the Fundamentals of Education / Dr. Qasim Ali	the reviewer President(Sources)			
Qahwan				
Family and Child Rearing / Hoda Mahmoud Al-Nashef	Books References chock that Recommended With			
	it(Magazines Scientific, Reports			
Locations that There is In it Lectures	the reviewer Electronic , Sites The Internet			
that Related In education Modern.				
	1			

Course Description Form					
1. Course Name:					
Computer					
2. Course Code:					
UREQ ۱۰۳					
3. Semester / Year:					
2024-2025/ first stage					
4. Description Preparation Date:					
<u>2024-2025</u>					
5. Available Attendance Forms: 2 hours per week					
6. Number of Credit Hours (Total) / Number of Units (Total):					
6 · hours /2 unit					
7. Course administrator's name (mention all, if more than one name)					
Name: Shaimaa Kareem Abdullah Email: shaimaa.kareem@mu.edu.iq					
8. Course Objectives					
 Course Objectives To effectively use computers and understand operating systems, file management, and folder organization. To use Microsoft Office programs such as Word, Excel, and PowerPoint. To navigate the internet, search for information, and communicate through email and web pages. 					
9. Teaching and Learning Strategies					
 Strategy Direct Instruction: Involves the teacher providing guidance, transferring knowledge and concepts, presenting information clearly, and guiding discussions and learning activities. Blended Learning: Aims to integrate traditional and electronic elements in the learning process. Modern technology and electronic tools are used alongside traditional methods such as face-to-face lessons and printed books. Collaboration and Interaction: Encourages collaboration between learners and between the teacher and students, including group work, discussions, and interactive learning. Active Learning: Encourages students to actively participate in the learning process, including engaging in hands-on activities and practical application of concepts. Problem-Based Learning: Focuses on solving real problems and challenges that students face. This includes problem analysis and application of strategies to solve them. 					

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
First	2	Introduction to Computer: Concepts of Hardware and Software with their components.	Computer Basics.	Theoretical	Daily quizzes + Questions and Answer	
Concept Informatio Informatio devices, an		Introduction to Computer (Cont.): Concept of Computing, Data and Information; Applications of Information Connecting input/output devices, and peripherals to CPU.	Computer Basics.	Theoretical	Daily quizzes.	
Third	2	Computer Components: Computer Portions, Hardware Parts, I/O Units.		Theoretical	Daily quizzes + Questions and Answer	
Fourth	2	Computer Components (Cont.): Memory Types: Volatile and Non- Volatile Memory, Secondary Storage.		Theoretical	Daily quizzes + Questions and Answer	
lifth	2	Computer Components (Cont.): CPU Components: Control Unit (CU), Arithmetic Logic Unit (ALU) and Registers.		Theoretical	Daily quizzes + Questions and Answer	
Sixth	2	Computer Components (Cont.): Computer Ports, Personal Computer (Features and Types).		Theoretical	Questions and Answe	
leventh	2	Operating System and Graphical User Interface GUI: Operating System; Basics of Common Operating Systems; The User Interface, Using Mouse Techniques.		Theoretical & practical	Questions and Answe	
Cighth	2	Operating System and Graphical User Interface GUI (Cont.): Use of Common Icons, Status Bar, Using Menu and Menu-selection.	nt.): Use of Common		Daily quizzes + Questions and Answe	
Vinth	2	Operating System and Graphical User Interface GUI (Cont.): Concept of Folders and Directories, Opening and closing of different Windows; Creating Short cuts.		Theoretical & practical	Daily quizzes + Questions and Answer	
[enth	2	Operating System and Graphical User Interface GUI (Cont.): Customization and Personalization of GUIs, Accessibility Features in GUIs, User Experience (UX).		Theoretical & practical	Questions and Answer	
Eleventh	2	Word Processing: Word Processing Basics; Basic Features of Word Processors, Opening and Closing of documents.	rd Processing: Word Processing Word Theoretical & practical ics; Basic Features of Word cessors, Opening and Closing of		Daily quizzes + Oral questions and answer	
welfth	2	Word Processing (Cont.): Text creation and Manipulation; Formatting Text and Paragraphs, Using Templates for Document Creation.		Theoretical & practical	Daily quizzes.	
`hirteenth	2	Word Processing (Cont.): Creating and Managing Tables, Utilizing Styles and Themes.		Theoretical & practical	Daily quizzes + Questions and Answer	
ourteenth	2	Word Processing (Cont.): Spell Check and Grammar Tools, Using Headers		Theoretical & practical		

		and Footers.			
Fifteenth 2		Spread Sheet: Introduction to Spreadsheet Software, Creating and Formatting Worksheets.	Excel	Theoretical & practical	Daily quizzes + Questions and Answe
Sixteenth	2	Spread Sheet (Cont.): Sorting and Filtering Data, Using Formulas and Functions		Theoretical & practical	Daily quizzes + Questions and Answe
eventeenth		Spread Sheet (Cont.): Using Formulas and Functions, Using Pivot Tables for Data Analysis.		Theoretical & practical	
Eighteenth	2	Spread Sheet (Cont.): Data Validation == and Error Checking, Data Visualization: Creating Charts and Graphs.		Theoretical & practical	Daily quizzes + Questions and Answe
Jineteenth	2	Presentation Software: Introduction to Presentation Software, Overview of Popular Presentation Tools, Creating a New Presentation.	PowerPoint	Theoretical & practical	Daily quizzes + Ora questions and answe
ſwentieth				Theoretical & practical	Daily quizzes + Questions and Answe
Wenty-first	2	Presentation Software (Cont.): Using Speaker Notes and Timers, Advanced Features: Hyperlinks and Action Buttons.		Theoretical & practical	Daily quizzes + Or questions and answe
Twenty- econd	2	Presentation Software (Cont.): Troubleshooting Common Presentation Issues, Future Trends in Presentation Technology		Theoretical & practical	Daily quizzes + Questions and Answ
ſwenty- hird	2	Introduction to Internet and Web Browsers: Computer networks Basic; LAN, WAN.	Internet and Web Browsers	Theoretical & practical	Daily quizzes + Ora questions and answe
Gwenty- Tourth	2	Introduction to Internet and Web Browsers (Cont.): Concept of Internet and its Applications; connecting to internet.		Theoretical & practical	Daily quizzes + Pract skills.
ſwenty-fifth			Theoretical & practical	Daily quizzes + Questions and Answe	
ſwenty- ixth	2	Introduction to Internet and Web Browsers (Cont.): Understanding URL; Domain name; IP Address.		Theoretical & practical	Daily quizzes + Ora questions and answe
ſwenty- eventh	2	Communications and Emails: Basics of electronic mail; Getting an email account; Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration.	Communications and Emails	Theoretical & practical	Daily quizzes + Questions and Answe
ſwenty- ighth	2	Communications and Emails (Cont.): Sending and receiving emails; Accessing sent emails; Using Emails; Document collaboration.		Theoretical & practical	Daily quizzes + Or questions and answe
ſwenty- linth	2	Introduction to Cloud Computing and Services: Definition of Cloud Computing and its concept, Cloud- Based Office Suites (Office 365 and Google Workspace).		Theoretical & practical	Daily quizzes + Pract skills.
Thirtieth	2	Introduction to Cloud Computing and	======	Theoretical &practical	Daily quizzes + Ora questions and answe

	1					
Services (Cont.): Google Google Docs, Google She Drive, Google Meet.						
11. Course Evaluation						
Monthly tests for academic subjects.						
Daily tests with multiple-choice questions for a	academic subjects.					
Oral assessment through engaging students in	discussions.					
Practical exams.						
12. Learning and Teaching Resources						
Required textbooks (curricular books, if any)	2016أساسيات الحاسوب", الخضر علي الخضر بحاث" – 2005مدخل إلى عالم الذكاء الاصطناعي", الدكتور عادل عبدالنور" –					
Main references (sources)	Minister Of Higher Education and Scientific Research					
Recommended books and references (scientific	Winister of Higher Education and Scientific Research					
ournals, reports)						
Electronic References, Websites	 Graham Brown, David Watson, "Cambridge IGCSE Inform and Communication Technology", الطبعة الثالثة (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technolo In Action Complete", الطبعة السادسة عشر (2020) Ahmed Banafa, "Introduction to Artificial Intelligence (AI) (2024) Microsoft Office 2019 Step by Step are lidet by Step & Joan Lambert 					

1. Course Name:						
Laboratory Safety and Security						
2. Course Code:						
3. Semester / Year:						
Fall Semester / 2024-2025						
4. Description Preparation Date:						
2024-2025						
5. Available Attendance Forms						
Daily attendance						
6. Number of Credit Hours (Total) / Number of Units (Total):						
2 Credit Hours / 3 Units						
7. Course administrator's name (mention all, if more than one name)						
Name: osama ghazi Email: Asama.khazi@mu.edu.iq						
8. Course Objectives						
Introducing students to the basics						
laboratory work, highlighting potent						
errors and methods to address probler						
and explaining the different types						
laboratories and the types of tox						
generated in laboratories.						
9. Teaching and Learning Strategies						
Strategy Strategy 1: Lectures using multimedia presentations and case studies						
Strategy 2: Laboratory sessions for insect identification and dissection Strategy 3: Field trips for observing insects in their natural habitats.						
Strategy 4: Group discussions and collaborative projects on p						
managemen						

10. Course Structure				
Week	Hours	Required Learning Outcomes	Unit or subject name	
1	2	knowledge	Ensuring proper behavior within the laboratory	
2	2	knowledge	Recommendations for actions when problems occur	

3	2	knowledge	Safety precautions	
4	2	knowledge	Hazards in the chemistry laboratory	
5	2	knowledge	Various hazards of chemicals	
6	2	knowledge	Toxins and the dangers of the biology laboratory	
7	2	knowledge	Radiation hazards	
8	2	knowledge	Biological hazards	
9	2	knowledge	Definition of biological hazards	
10	2	knowledge	Methods of controlling risks	
11	2	knowledge	How to choose the appropriate person	
12	2	knowledge	Hazardous waste	
13	2	knowledge	Handling and dealing with hazardous waste	
14	2	knowledge	Biological safety	
15	2	knowledge	Dangers of biological waste	
16	2	knowledge	Stakeholders in biological safety	
17	2	knowledge	Biosafety	
18	2	knowledge	Factors affecting biosafety	
19	2	knowledge	Human relations behaviors	
20	2	knowledge	Objectives of human relations	
21	2	knowledge	Work division system in the laboratory	
22	2	knowledge	Storage	
23	2	knowledge	Types of storage	
24	2	knowledge	Fires	
25	2	knowledge	Methods of extinguishing fires	
26	2	knowledge	Causes of fires	
27	2	knowledge	First aid	
28	2	knowledge	First responder's duties	
29	2	knowledge	General characteristics of laboratories and their importance	
30	2	knowledge	Fires	

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

40 marks (5 marks for the first monthly exam + 5 marks for the second

monthly exam + 15 marks for the midterm exam) + 5 marks for daily						
preparation and daily tests)						
60 marks (40 marks final theoretical exam)						
12. Learning and Teaching Resources						
A collection of topics included in the ministe						
curriculum, compiled from various modern a						
updated books.						
Main references (sources)						
Book: Insect Physiology						
Author: Dr. Osama Mohamed Ali						
Book: Insect Classification						
Author: Dr. Mohamed Abdel Fattah Hassan						
Book: Study of Insects in the Environment						
Author: Dr. Hala Mohamed Hassan						
Electronic References, Websites						

1. Cou	1. Course Name:				
Plant taxo	Plant taxonomy				
	2. Course Code:				
Bio 304					
	nester / Year:				
2024-202	.5				
4. Des	cription Preparation Date:				
2024-202					
5. Ava	ailable Attendance Forms				
	aily attendance				
6. Nui	mber of Credit Hours (Total) / Nu	mber of Units (Total):			
	ours (theoretical)				
		ntion all, if more than one name)			
	ne: lecturer.dr. mohamed baqer				
Em	Email: <u>:Mohamed-almosawy@mu.edu.iq @mu.edu.iq</u>				
8. Coi	irse Objectives				
Course Objectives		Giving a complete idea about introducing the student to the concept of management, developing the concept of school and educational administration, and learning about the concept of leadership, its functions, and the characteristics of general leadership.			
9. Teaching and Learning Strategies					
Strategy	egy 1- Lecture, use of the blackboard and presentation				
	2- Demonstration (using grap	hs, pictures and educational films			
	using a data projector)				
3- Interactive discussion					
	4- Self-education				

10. C	10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1	2	knowledge	The concept of management and the development of the concept of management	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-educational classes using the	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports	

				Classroom platform	
2	2	knowledge	School administration theories	====	====
3	2	knowledge	The concept of educational	====	====
-		internedge	administration and school		
			administration		
4	2	knowledge	Leadership and management	====	====
5	2	knowledge	General functions and	====	====
			characteristics of leadership		
6	2	knowledge	The concept of educational	====	====
		0	planning		
7	2	knowledge	Foundations and rules of	====	====
		_	educational planning		
8	2	knowledge	Stages and requirements for	====	====
			successful educational planning		
9	2	knowledge	Benefits of educational	====	====
			planning		
10	2	knowledge	The role of planning in the	====	====
11	-	ا با با با ب	educational process		
11	2	knowledge	Definition of decision and its	====	====
12	2	knowledge	importance Decision making steps and	====	
12	2	KIIOWIEuge	Decision making steps and types of decisions		=
13	2	knowledge	Administrative leadership	====	====
	_	KIIOwicuge	styles		
14	2	knowledge	Factors affecting the leader in	====	====
		into the dego	adopting the administrative		
			style		
15	2	knowledge	The concept of classroom	====	====
-			management		
16	2	knowledge	The concept of educational	====	====
			supervision and its tasks		
			And his goals		
17	2	knowledge	Methods of educational	====	====
10		1 . 1 1	supervision		
18	2	knowledge	Motivation concept	====	====
19	2	knowledge		====	====
			The importance of incentives		
		1 1 1			
20	2	knowledge	Types of incentives	====	====
•		1 1 1			
21	2	knowledge	The concept of performance	====	====
22		1-m - 1 - 1	evaluation		
22	2	knowledge	The importance of performance evaluation	====	====
23	2	knowledge	Performance evaluation		====
23	2	Knowledge	objectives		=
24	2	knowledge	Performance evaluation	====	====
			elements		
25	2	knowledge	Basic rules for performance	====	====
		Ĺ	evaluation		
26	2	knowledge	Benefits of performance	====	====
			evaluation		
27	2	knowledge	Developing the performance	====	====
			evaluation process		
28	2	knowledge	Stages of performance	====	====
			evaluation		

29	2	knowledge	Leadership and administrative tasks of the administrative leader		
30	2	knowledge	Supervisory methods	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	not available
Main references (sources)	
Recommended books and references	Towards the development of school administration ((theoretical and fie studies),
(scientific journals, reports)	Psychology of school administration.
Electronic References, Websites	Websites available on Google Chrome

Course Description Form				
1. Course Name:				
Histology				
2. Course Code:				
Bio 202				
3. Semester / Year:				
2024-2025				
4. Description Preparation Date:				
2024-2025				
5. Available Attendance Forms				
: Daily attendance				
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):			
۲ hours (theoretical) / Number of Ur	nits 6			
7. Course administrator's name (me	ntion all, if more than one name)			
Name: Lecturer. Duaa Hamad Hamza				
Email: doaa.hamad@mu.edu.iq				
8. Course Objectives				
Course Objectives Identifying the tissues required for to organs of the living body's systems and th components, each tissue, its types a locations in the human body, and known the function of each type of tissue				
9. Teaching and Learning Strategies				
Strategy1- Lecture, use of the blackbo2- Demonstration (using grap using a data projector)3- Interactive discussion 4- Self-education	ard and presentation hs, pictures and educational films			

10. Co	10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1	4	knowledge	Definition in Histology	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the Classroom platform	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports	
2	4	knowledge		====	====	

			classification of animal tissue		
			classification of animal ussue		
3	4	knowledge		====	====
		_	Epithelial tissue, simple		
			epithelial tissue		
4	4	knowledge	stratified epithelial tissue	====	====
5	4	knowledge	Glandular epithelial tissue	====	====
6	4	knowledge	Connective tissue ,	====	====
			components of connective		
			tissue		
7	4	knowledge		====	====
			Proper connective tissue		
8	4	knowledge		====	====
			Bone		
9	4	knowledge		====	====
			Cartilage		
10	4	knowledge		====	====
			Blood		
11	4	knowledge	Blood component	====	====
12	4	knowledge	Muscle tissue	====	====
12	4	Imorriladaa			
13	4	knowledge	Turne of musels tierus	====	====
14	1	knowledge	Type of muscle tissue		====
14	4	knowledge	Skalatal mussla	====	
15	4	knowladza	Skeletal muscle Nerves tissue	====	====
13	4	knowledge	iverves tissue		
16	4	knowledge		====	====
10	4	Knowledge	Type of neuron		
17		Imorriadaa	Type of neuron		
17	4	knowledge	Circulatory system	====	====
			Circulatory system		
18	4	knowledge		====	====
10	4	knowledge	lleart		
10	4	knowladaa	Heart Respiratory system	====	
19	4	knowledge	Respiratory system		====
20	4	knowledge	Lung , Trachea ,Bronchioles	====	====
21	4	knowledge	Digestive system	====	====
22	4	knowledge	Esophagus ,stomach, intestine	====	====
			······································		
23	4	knowledge	Central nervous system	====	====
		_	-		
24	4	knowledge	Peripheral nervous system		====

					[
25	4	knowledge		====	====
			Urinary system		
26	4	knowledge		====	====
			Integment system (skin)		
27	4	knowledge	Male reproductive system	====	====
28	4	knowledge	Female reproductive system	====	====
29	4	knowledge	Lymphatic system	====	====
30	4	knowledge	Spleen, Thymus, Tonsils	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam+20 marks final practical exam)

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Basic Histology
Main references (sources)	
	-Histology and Cell biology - HISTOLOGY A TEXT AND ATLAS Atlas of Descriptive Histology
Electronic References, Websites	

	Course Description Form					
1. Course Name:						
Embryology	Embryology					
2. Course Code:						
Bio 203						
3. Semester / Years						
2024-2025						
4. Description Prep	paration Date:					
2024-2025						
5. Available Attenda	ance Forms					
: Daily attendance						
6. Number of Credit	t Hours (Total) / Number of Units (Total):					
2 hours (theoretic	cal) 2 hours(practical)					
7. Course adminis	trator's name (mention all, if more than one name)					
	of. Eqbal Awadh Gatea					
Email: eq_l	bio2013@mu.edu.iq					
8. Course Objective	S					
Course Objectives Introducing the student to embryology and its importance. Embryology is concerned with studying the stages of embryonic development that living organisms from the beginning of the formation of gametes to the formation of the zygote and then its development into an individual with the characteristics of the parents. It also searches how the fetal body is formed and the factors causing the morphological changes						
9. Teaching and Lea	arning Strategies					
2- Demonstra 3- Teaching th 4- Interactive 5- Practical te	e of the blackboard, and delivery tion (using diagrams and educational pictures using datashows, videos) hrough exploratory lecture discussion ests used in laboratories using Google Classroom platforms					

10. Co	10. Course Structure						
Week							
1	2	knowledge	Introduction to embryology	Lecture, use of the	Theoretical,		
		_		blackboard, and	practical/oral		
				delivery	and written		
				, Demonstration	examinations		
				(using diagrams	(daily,		
				and educational	monthly and		
				pictures using	midterm		

				datashows,	exam) and
				videos), Teaching	scientific
				through	reports
				exploratory	10porto
				lecture,	
				Interactive	
				discussion,	
				Practical tests	
				used in	
				laboratories, E-	
				learning using	
				Google	
				Classroom	
				platforms	
2	2	knowledge	Spermatogenesis	====	====
3	2	knowledge	Oogenesis	====	====
4	2	knowledge	Fertilization	====	====
5	2	knowledge	Cleavage	====	====
6	2	knowledge	Growth and differentiation	====	====
7	2	knowledge	early embryonic	====	====
	-	into wreage	development in amphioxus		
8	2	knowledge	Organogenesis (neural tube	====	====
	-	intowieuge	and gut) in amphioxus		
			embryo		
9	2	knowledge	Organogenesis (mesoderm)	====	====
5	4	Kilowicuge	in amphioxus embryo		
10	2	knowledge	early embryonic		
10	4	Kilowieuge	5 5		
11	2	111	development in amphibian		
11		knowledge	Neurulation in Frog	====	====
12	2	1 1 1	Embryo		
12	2	knowledge	Origin of Heart and blood	====	====
12		1 1 1	at frog embryo		
13	2	knowledge	3 mm Frog embryo	====	====
14	2	knowledge	6 mm Frog embryo	====	====
15	2	knowledge	First-semester exam	====	====
16	2	knowledge	early embryonic	====	====
			development in birds		
17	2	knowledge	embryonic development	====	====
			from cleavage to blastula		
			in chick embryo		
18	2	knowledge	embryonic development (====	====
			gastrula and primitive		
			streak) in chick embryo		
19	2	knowledge		====	====
			Chick embryo until 18 hr's		
			incubation		
20	2	knowledge	Chick embryo until 24 hr's	====	====
			incubation		
21	2	knowledge	Chick embryo until 33 hr's	====	====
			incubation		
22	2	knowledge	Chick embryo until 48 hr's	====	====
	4	KIIOwieuge	Chick childryb untur 40 hr S		

			incubation		
23	2	knowledge	Chick embryo until 72 hr's incubation	====	====
24	2	knowledge	Embryonic membranes	====	====
25	2	knowledge	Male and female reproductive system in humans	====	====
26	2	knowledge	early embryonic development in human	====	====
27	2	knowledge	Embryonic development until the 20 days in humans	====	====
28	2	knowledge	Embryonic development until the 6 weeks in humans	====	====
29	2	knowledge	Embryonic development until the 7 months in humans	====	====
30	2	knowledge	second-semester exam	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12.	Learning and	Teaching	Resources
-----	--------------	----------	-----------

Required textbooks (curricular books, if any)	
Main references (sources)	Langman's Medical Embryology Larsen's Human Embryology
Recommended books and references	
(scientific journals, reports)	
Electronic References, Websites	Websites available on internet

Course Description Form			
1. Course Name:			
Biochemistry			
2. Course Code:			
3. Semester / Year: 2th			
2024-2025			
4. Description Preparation Date:			
2024-2025			
5. Available Attendance Forms			
: Daily attendance			
6. Number of Credit Hours (Total) / Nu			
1 hours (theoretical) 2 hours(practi			
7. Course administrator's name (mention all, if more than one name)			
Name: lecturer israa hamdan			
Email: <u>israa.hamdan@mu.edu</u>	<u>.10</u>		
8. Course Objectives			
Course Objectives1- Teaching students about laboratory wor and dealing with tools and chemicals 2- Teaching students to prepare solution and perform chemical calculations 3- Providing students with the skill of scientific research into cause and effect 4- Teaching students some organic reaction			
9. Teaching and Learning Strategies			
Strategy Education strategy collaborative concept planning. 2- Brainstorming education strategy. 3- Education Strategy Notes Series			

10	10. Course Structure				
Wee k	Hour s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio n method
1	2	knowledge	Carbohydrates, introduction, its prevalence and importance of studying it Properties, classification, monosaccharides Disaccharides, polysaccharides, starches Glycogen, dextrins Cellulose, amino sugars	A student who knows how to handle dangerous and toxic chemicals He also knows the correct handling method in the	Weekly, monthly, daily, written exams, and the end-of- year .exam

Fats, classification, properties,	laboratory
neutral lipids, phospholipids	He is good at
Sphingomyelin, glycolipids,	explaining
cerebrosides	chemistry and
Waxes, steroids, terpenes	linking it to
Proteins, their importance, existence,	biology, as he is a
general properties, classification	life sciences
Amino acids (essential and non-	teacher
essential), non-protein amino acids,	
properties of amino acids and	In addition to the
zwitterionic composition.	skill of chemical
Primary structure of protein,	calculations
Secondary structure of protein,	We teach organic
Tertiary structure of protein	reactions and
Methods of protein purification,	their benefits in
Methods of protein quantification,	daily life
Methods of protein molecular weight	
estimation	
Types of peptides, Physiologically	
active peptides, Identification of	
amino acids at the ends of the	
peptide chain	
Enzymes, Structure, Importance,	
Classification, Nomenclature of	
enzymes	
Kinetic properties of enzymes,	
Mechanism of action of regulatory	
enzymes (allostery)	
Isotypic enzymes, Enzyme activators	
and inhibitors	
Exam	

11. Course Evaluation		
The distribution is as follows: the first semester exam is 5%, the second semester is 5%, and the		
half year is 15%, the first semester practical exa	m is 5%, and the second semester practical exam	
is 5%, in addition to absences 3%.	_	
12. Learning and Teaching Resources		
Required textbooks (curricular books, if any)		
Main references (sources)		
Recommended books and references (scientific		
journals, reports)		
Electronic References, Websites	Websites available on Google Chrome	

Course Description Form			
13.	Course Name:		
Computer			
14.	Course Code:		
UREQ 201			
15.	Semester / Year:		
2024-202	5/ second stage		
16.	Description Preparation Date:		
2024-202			
	lable Attendance Forms		
	ours per week		
18.Num 60 ho	ber of Credit Hours (Total) / Number of Units (Total):		
19.	Course administrator's name (mention all, if more than one name)		
	imaa Kareem Abdullah Email: shaimaa.kareem@mu.edu.iq		
	- · ·		
20. Course Objec	Course Objectives tives • To effectively use computers and understand		
	 operating systems, file management, and folder organization. To use Microsoft Office programs such as Word, Excel, and PowerPoint. To navigate the internet, search for information, and communicate through email and web pages. 		
21.	Teaching and Learning Strategies		
Strategy			

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	Security and Networks: What is a network? Types of networks. Basic network components.	Security and Networks	Theoretical &practical	Daily Tests + Questions and Answers
Second	2	Security and Networks (continued): Basic network components.		Theoretical &practical	Daily Tests + Questions at Answers
Third	2	Security and Networks (continued): Basics of network security. Understanding network threats. Network troubleshooting.		Theoretical &practical	Daily Tests + Practical Ta Evaluation
Fourth	2	Security and Networks (continued): Introduction to network troubleshooting, common network problems and symptoms, network troubleshooting tools and utilities.		Theoretical &practical	Daily Tests + Questions a Answers
Fifth	2	Security and Networks (continued): Using command-line tools for diagnostics, identifying and resolving connectivity issues, diagnosing network performance issues.		Theoretical &practical	Daily Tests + Practical Skills
Sixth	2	E-commerce: Concepts of electronic banking including online banking: ATM services and debit cards.	E-commerce	Theoretical &practical	Daily Tests + Questions a Answers
Seventh	2	E-commerce (continued): Phone banking, SMS banking, e-alerts, mobile banking.		Theoretical &practical	Daily Tests + Practical Skills
Eighth	2	Computer Troubleshooting: Introduction to computer troubleshooting, common hardware problems and solutions, diagnosing software issues.	Computer Troubleshooting	Theoretical &practical	Daily Tests + Practical Ta Evaluation
Ninth	2	Computer Troubleshooting (continued): Hardware components: diagnostics and repair, using safe mode for troubleshooting.		Theoretical &practical	Daily Tests + Questions a Answers
ſenth	2	Computer Troubleshooting (continued): Troubleshooting operating system issues, identifying and resolving blue screen errors, dealing with slow computer performance.		Theoretical &practical	Daily Tests + Questions a Answers
Eleventh	2	Computer Troubleshooting (Cont.): Virus and Malware Removal Techniques, Updating Drivers and Software.		Theoretical &practical	Daily Tests + Practical Skills
ſwelfth	2	Introduction to AI: Definition of AI, History of AI, AI Techniques and Approaches.	AI	Theoretical &practical	Daily Tests + Questions a Answers
Thirteenth	2	Introduction to AI (Cont.): Key Characteristics of AI, Benefits of AI, Challenges and Ethical considerations.		Theoretical &practical	Daily Tests + Practical Ta Evaluation
ourteenth	2	Introduction to AI (Cont.):		Theoretical & practical	Daily Tests + Questions a

		Challenges and Limitations of AI,		Answers
		The Role of Data in AI Systems.		
ìifteenth	2	Introduction to AI (Cont.): AI Tools and Frameworks.	 Theoretical & practical	Daily Tests + Questions a Answers
lixteenth	2	The Role of AI in Modern Smartphones: AI-Driven Mobile Technologies, Virtual Assistants (Siri, Google Assistant, Alexa).	 Theoretical &practical	Daily Tests + Practical Skills
eventeenth	۲	The Role of AI in Modern Smartphones (Cont.): Adaptive Learning, Real-Time Translation Services.	 Theoretical &practical	
Eighteenth	2	The Role of AI in Modern Smartphones (Cont.): The Future of AI in Smartphone Technology, Challenges of Implementing AI in Mobile Devices.	 Theoretical &practical	Daily tests + Questions a Answers
Vineteenth	2	Applications and Tools of AI: Overview of AI Applications in Various Industries, Education and Healthcare.	 Theoretical &practical	Daily tests + Questions a Answers
wentieth	2	Applications and Tools of AI (Cont.): Transportation and Advertising.	 Theoretical &practical	Daily tests + Oral Questions a Answers
wenty-first	2	Applications and Tools of AI (Cont.): Finance, Robotics and Automation Technologies.	 Theoretical &practical	Daily tests + Questions a Answers
Fwenty- econd	2	Applications and Tools of AI (Cont.): AI in Marketing: Targeting and Personalization.	 Theoretical &practical	Daily tests + Oral Questions a Answers
ſwenty- hird	2	Applications and Tools of AI (Cont.): AI in Image and Video Analysis, Smart Cities.	 Theoretical &practical	Daily tests + Practical Skills
Swenty- Ourth	2	Applications and Tools of AI (Cont.): Future Trends in AI Applications and Tools.	 Theoretical &practical	Daily tests + Questions a Answers
wenty-fifth	2	AI and Society: Introduction to AI and Its Societal Impact, The Role of AI in Enhancing Public Safety.	 Theoretical &practical	Daily tests + Oral Questions a Answers
ſwenty- ixth	2	AI and Society (Cont.): Cultural Perspectives on AI Adoption, AI and Governance: Policy Implications	 Theoretical &practical	Daily tests + Questions a Answers
ſwenty- eventh	2	Ethical Challenges in AI: Introduction to Ethics in AI, Transparency and Explainability of AI Systems, Privacy Concerns in AI Data Usage	 Theoretical &practical	Daily tests + Oral Questions a Answers
Twenty- ighth	2	Ethical Challenges in AI (Cont.): The Ethical Implications of Autonomous Systems, Ethics in AI-Driven Marketing and Advertising	 Theoretical &practical	Daily tests + Practical Skills
Twenty- inth	2	Ethical Challenges in AI (Cont.): Ethical Considerations in Education, Human Rights and AI Implementation	 Theoretical &practical	Daily tests + Oral Questions a Answers
Thirtieth	2	The Future of AI: Future trends in AI, recent research and emerging technologies.	 Theoretical &practical	Daily tests + Questions a Answers

23. Course EvaluationMonthly tests for academic subjects.

• Daily tests with multiple-choice	e questions for academic subjects.
------------------------------------	------------------------------------

- Oral assessment through engaging students in discussions.
 Practical exams

Practical exams.	
24. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	2016أساسيات الحاسوب", الخضر علي الخضر بحاث" – مدخل إلى عالم الذكاء الاصطناعي", الدكتور عادل " – 2005 عبدالنور
Main references (sources)	Minister Of Higher Education and Scientific Research
Recommended books and references (scientific journals, reports)	
Electronic References, Websites	 Graham Brown, David Watson, "Cambridge IGCSE Information and Communication Technology", الطبعة الثالثة (2020) Alan Evans, Kendall Martin, Mary Anne Poatsy, "Technology In Action Complete", مشر الطبعة السادسة (2020) Ahmed Banafa, "Introduction to Artificial Intelligence (AI)", الطبعة الأولى (2024) Microsoft Office 2019 Step by Step الطبعة الأولى Curtis Frye & Joan Lambert

	-		
1. Course Name:			
Educational administration and secondary education			
2. Course Code:			
CREQ 202			
3. Semester / Year:			
7.70_7.72			
4. Description Preparation Date:			
7.70_7.72			
5. Available Attendance Forms			
: Daily attendance			
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):		
۲ hours (theoretical)			
7. Course administrator's name (me			
Name: Assist. Pro.dr. Nadia Hussein	ı Ali		
Email: <u>nadiasaoudi@mu.edu.iq</u>			
8. Course Objectives			
Course Objectives Giving a complete idea about introducing the student to the concept of management, developing the concept of school and educational administration, and learning about the concept of leadership, its functions, and the characteristics of general leadership.			
9. Teaching and Learning Strategies			
Strategy1- Lecture, use of the blackboard and presentation 2- Demonstration (using graphs, pictures and educational films using a data projector) 3- Interactive discussion 4- Self-education			

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	knowledge	The concept of management and the development of the concept of management	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports

				Classroom platform	
2	2	knowledge	School administration theories	====	====
3	2	knowledge	The concept of educational	====	====
•	-	Knowledge	administration and school		
			administration		
4	2	knowledge	Leadership and management	====	====
5	2	knowledge	General functions and	====	====
•	_	Knowledge	characteristics of leadership		
6	2	knowledge	The concept of educational	====	====
•	_	into meage	planning		
7	2	knowledge	Foundations and rules of	====	====
			educational planning		
8	2	knowledge	Stages and requirements for	====	====
			successful educational planning		
9	2	knowledge	Benefits of educational	====	====
			planning		
10	2	knowledge	The role of planning in the	====	====
			educational process		
11	2	knowledge	Definition of decision and its	====	====
		_	importance		
12	2	knowledge	Decision making steps and	====	====
			types of decisions		
13	2	knowledge	Administrative leadership	====	====
			styles		
14	2	knowledge	Factors affecting the leader in	====	====
			adopting the administrative		
			style		
15	2	knowledge	The concept of classroom	====	====
			management		
16	2	knowledge	The concept of educational	====	====
			supervision and its tasks		
17		1	And his goals Methods of educational		
17	2	knowledge		====	====
18	2	knowledge	supervision	====	====
		-	Motivation concept		
19	2	knowledge		====	====
			The importance of incentives		
20		Imon la 1			
20	2	knowledge	Types of incentives	====	====
24	_	1			
21	2	knowledge	The concept of performance	====	====
22	-	1	evaluation		
22	2	knowledge	The importance of performance evaluation	====	====
23	2	knowledge	Performance evaluation		====
23	∠	Kilowieuge	objectives	====	=
24	2	knowledge	Performance evaluation	====	====
		inio wieuge	elements		
25	2	knowledge	Basic rules for performance	====	====
			evaluation		
26	2	knowledge	Benefits of performance	====	====
	-		evaluation		
27	2	knowledge		====	====
	-	inte inteage	Developing the performance		
			evaluation process		
28	2	knowledge	Stages of performance	====	====
			evaluation		

29	2	knowledge	Leadership and administrative tasks of the administrative leader		
30	2	knowledge	Supervisory methods	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	not available
Main references (sources)	
Recommended books and references	Towards the development of school administration ((theoretical and fie studies),
(scientific journals, reports)	Psychology of school administration.
Electronic References, Websites	Websites available on Google Chrome

1. C	ourse Name:							
biostatistics								
2. C	ourseCode :							
3.50	emester / Ye	ar						
		ui :						
4 D		an anation Data						
4. D	escription Pre	eparation Date:	24. 2025					
		20.	24-2025					
5. A	vailable Atter	ndance Forms: In p	erson					
	1 0 0		NY 1 011 - 07	1				
			Number of Units (Tot	tal)				
1	under of Cre	dit Hours (Total) 6	U HOUITS					
7. C	ourse admir	nistrator's name)r	nention all, (if more	e than one	e name			
		1	ioud e: modrn@mu					
8. C	ourse Objecti	ves						
	Course Objectives1- Identify the concept of inferential and inferential statistics. 2- Identify the null and alternative statistical hypotheses and how to verify them. 3- Identify the differences between statistics. 4- Enabling students to be able to interpret statistical results. 5- Enabling students to be able to distinguish between how to use nonparametri statistics. '- Enabling students to apply statistical methods appropriately in light of each topic.							
9. To	eaching and I	_earning Strategies						
	Strat Strategic	teaching and learning	methods					
		hods (teaching explan	- /					
		riting on the blackboar						
		•	e between the teacher	and the s	tudent, with			
		evaluation in class par	rticipation					
	Conduct e	experiments.						
10. Cou	urse Structure	9						
Week	Hours	SEMISTER 1	SEMISTER 2	Learning	Evaluation			
				method	method			
				motriou	mounou			
The first	Theoretical	To know and	Introduction to statistics		Exams,			

		the population and the sample and employ sampling methods when selecting the sample		discussions Quizzes
second week	^v Theoretical	Data tab	Population and sample/methods for selecting samples/parameters and estimates/sample errors	Exams , reports, discussions
the third week	[*] Theoretical ·	Arithmetic mean -	Measures of central tendency 1	Exams , reports, discussions
fourth week	[†] Theoretical ·	The mediator - Manwal	Measures of central tendency 2	Exams , reports, discussions
The fifth week	[†] Theoretical ·	Variance – Standard Deviation Range – Mean Deviation	Data tab - tabular display	Exams , reports, discussions
the sixth week	[*] Theoretical ·	Standard error - coefficient of variation	• Frequency distribution table.	Exams , reports, discussions
Seventh week	^Y Theoretical ·	To employ statistical hypotheses in research	• Tabular display of metadata.	Exams , reports, discussions
The eighth week	*Theoretical .	To reduce the possibility of the researcher making an error when testing the hypotheses, type 1 alpha error and type 2 beta error	• Frequency distribution table for quantitative data.	
Week nine	*Theoretical	To employ the level of significance / degrees of freedom / examples using the statistical package	• Ascending and descending clustered frequency table.	Exams , reports, discussions
The tenth week	^v Theoretical	To know the inferential statistics of the monthly test	Measures of dispersion1	Exams , reports, discussions
Week eleven	Theoretical	To employ statistical hypotheses in research	Measures of dispersion2	Exams , reports, discussions
The twelfth week	^Y Theoretical ·	z test	Measures of dispersion3	Exams , reports, discussions
The thirteenth week	[↑] Theoretical ·	T test	Monthly test	Exams , reports, discussions
The fourteenth week	*Theoretical ·	F test	Statistical hypotheses/what are statistical hypotheses/null and alternative hypotheses	Exams , reports, discussions
The fifteenth week		Monthly exams	The chances of the researcher making an error when testing hypotheses/type 1 alpha error/type 2 beta error	

Distributing the score out of `` according to the tasks assigned to the student such as daily written exams, reports etcor ,oral, monthly preparation, daily

12. Learning and Teaching Resources

12. Learning and reaching Resources	
(if any ,curricular books) Required textbo	Introduction to Statistics by Dr. Khashia Al-Rawi, University of Mosul 2000 - Principles of Statistics by Dr. Khashia Al-Rawi - Naim Thatmi Al-Muhammad - Muayyad Ahmed Al-Younes - Zulayd Khaled Al- Marai
Main references (sources)	From methodological books, help books,
	Internet, and scientific research
Recommended books and references	Iraqi Scientific journals in basic specializations
(scientific journals, reports)	
Electronic References, Websites	Al-Muthanna University e-learning website
	https://agr.mu.edu.iq/

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	knowledge	Introduction to ecology	1. Presenting the lecture in an interactive discussion manner.	Theoretical, practical/oral and written exams (daily

				2. Encouraging students to self-learn.	and monthly) and scientific reports
2	2	knowledge	Branches of ecology	/////	11111
3	2	knowledge	Environmental system	/////	// // //
4	2	knowledge	Biogeochemical cycles	/////	// // //
5	2	knowledge	Biogeochemical cycles 2	/////	// // //
6	2	knowledge	Sedimentary cycle	/////	// // //
7	2	knowledge	Determining factors		// // //
8	2	knowledge	Determining factors 2	/////	
9	2	knowledge	Energy and its relationship with environmental systems	// // //	// // //
10	2	knowledge	Energy and its relationship with environmental systems	/////	
11			First semester exam		
12	2	knowledge	Populations	/////	// // //
13	2	knowledge	Population 2		//////
14	2	knowledge	Populations 3		/////
15	2	knowledge	Environmental communities		// // //
16			Mid-year exam		
17	2	knowledge	Environmental communities 2		// // //
18	2	knowledge	Relationships between species		// // //
19	2	knowledge	Ecological succession	// // //	// // //
20	2	knowledge	Ecological succession		// // //
21	2	knowledge	Introduction to environmental pollution	/////	
22	2	knowledge	Air pollution and noise pollution	/////	
23	2	knowledge	Water Pollution and pesticide contamination	/////	
24	2	knowledge	Soil contamination	// // //	
25			Radioactive pollution	/////	// // //
26			Second semester exam		
27	2	knowledge	Climate change		
28	2	knowledge	Pollutants of a global nature	/////	// // //
29	2	knowledge	Ozone Layer	/////	// // //
30	2	knowledge	Global Warming		// // //

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

40 marks (5 marks for the first monthly exam + 5 marks for the second

monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam+20 marks final practical exam)

12. Learning and Teaching Resources				
Required textbooks (curricular books, if any)	Mawlid, Bahram Khader, Hussein Ali Al-Saadi, Fawzi Shanawa Al-Zubaidi. (1992). Environmental Science. University of Babylon.			
Main references (sources)				
	Ecology and pollution. a. Dr. Hussein Al-Saadi. Basics of ecology. a. Dr. Ibrahim Abdel Rahman. Scientific journals, periodicals and research in the field			
Electronic References, Websites	·····			

Course Desc	ription Form
1. Course Name:	
comparative anatomy	
2. Course Code:	
201BIN	
3. Semester / Year:	
2024-2025	
4. Description Preparation Date:	
2024-2025	
5. Available Attendance Forms	
: Daily attendance	·· (〒 (1)
6. Number of Credit Hours (Total) / Number of U	nits (Total):
2 hours (theoretical) 2 hours(practical)	
Course administrator's name (mention all, if mention all)	
Name: Email: Assist. Lecturer nawal ju	imaah shanshool
nawal.jumaah@mu.edu.iq	
8. Course Objectives	
Course Objectives	1-Study the origin and ancestor of charades and
	comparative study of different system structurally and functionally.
	2. Study symmetry and similarity between
	organs
	3. Detailed study on the composition of an
	explanation of vertebrata animals
9. Teaching and Learning Strategies	
	and delivery 2- Demonstration (using diagrams
	s, videos) 3- Teaching through exploratory lecture
	ests used in laboratories 6- E-learning using God
Classroom platforms	

10. Co	ourse Struc	ture			
Week	H0ur s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	knowledge	Origin & general characters of chordates	Lecture, use of the blackboard, and delivery , Demonstration (using diagrams and educational pictures using datashows, videos), Teaching through exploratory lecture, Interactive discussion, Practical tests used in laboratories, Elearning using Google Classroom platform	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports
2	2	knowledge	Origin & general characters of chordates		
3	2	knowledge	Classification of Chordates (2)		
4	2	knowledge	Integumentary system (1)		
5	2	knowledge	Integumentary system (2)		
6	2	knowledge	Skin Derivatives		
7	2	knowledge	Muscular system (1)		
8	2	knowledge	Muscular system (2)		
9	2	knowledge	Digestive system (1)		

10	2	knowledge	Digestive system (2)	
11	2	knowledge	Digestive gland	
12	2	knowledge	Respiratory system (1)	
13	2	knowledge	Respiratory system (2)	
14	2	knowledge	Respiratory system (3)	
15	2	knowledge	Respiratory system (3)	
16	2	knowledge	Excretory system (1)	
17	2	knowledge	Excretory system (2)	
18	2	knowledge	Excretory system (3)	
19	2	knowledge	Genital system (1)	
20	2	knowledge	Genital system (2)	
21	2	knowledge	Genital system (3)	
22	2	knowledge	Hermaphroditism	
23	2	knowledge	Circulatory system	
24	2	knowledge	Heart	
25	2	knowledge	Aortic arches	
26	2	knowledge	Nervous system	
27	2	knowledge	Brain	
28	2	knowledge	Cranial	
29	2	knowledge	Skeletal system (1)	
30	2	knowledge	Skeletal system (2)	

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests) 60 marks (40 marks final theoretical exam)

12. Learning and Teaching Resources				
Required textbooks (curricular books, if any)	comparative anatomy			
Main references (sources)				
Recommended books and references (scientific journals, reports)	-comparative anatomy: function, evolution kardong k.v.(2012) - comparative anatomy of the vertebrates ke G.carr.R.k.(2001) - kardong k.v.(1995) vertebrates comparative function.			
Electronic References, Websites	TechME Anatomay			

Course Description Form 1. Course Name: Phycology 2. Course Code: Bio 304 3. Semester / Year: 2024-2025 4. Description Preparation Date: 2024-2025 5. Available Attendance Forms : Daily attendance 6. Number of Credit Hours (Total) / Number of Units (Total): 2 hours (theoretical) 7. Course administrator's name (mention all, if more than one name) Name: lecturer.dr. mohamed bager Hussein Email: .:: Mohamed-almosawy@mu.edu.iq @mu.edu.iq 8. Course Objectives Giving a complete idea about introducing the **Course Objectives** student to the concept of management, developing the concept of school and educational administration, and learning about the concept of leadership, its functions, and the characteristics of general leadership. 9. Teaching and Learning Strategies 1- Lecture, use of the blackboard and presentation Strategy 2- Demonstration (using graphs, pictures and educational films using a data projector) 3- Interactive discussion 4- Self-education

10. C	10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1	2	knowledge	The concept of management and the development of the concept of management	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports	

				-Self-education	
				 Open educational classes using the 	
				Classroom platform	
2	2	knowledge	School administration theories	====	====
3	2	knowledge	The concept of educational	====	====
			administration and school		
			administration		
4	2	knowledge	Leadership and management	====	====
5	2	knowledge	General functions and	====	====
		5	characteristics of leadership		
6	2	knowledge	The concept of educational	====	====
			planning		
7	2	knowledge	Foundations and rules of	====	====
			educational planning		
8	2	knowledge	Stages and requirements for	====	====
			successful educational planning		
9	2	knowledge	Benefits of educational	====	====
10		1	planning		
10	2	knowledge	The role of planning in the educational process	====	====
11	2	knowledge	Definition of decision and its	====	====
	_	Knowledge	importance		
12	2	knowledge	Decision making steps and	====	====
		6	types of decisions		
13	2	knowledge	Administrative leadership	====	====
		U	styles		
14	2	knowledge	Factors affecting the leader in	====	====
			adopting the administrative		
			style		
15	2	knowledge	The concept of classroom	====	====
			management		
16	2	knowledge	The concept of educational	====	====
			supervision and its tasks		
17	2	knowledge	And his goals Methods of educational		
17	2	Kilowiedge	supervision		
18	2	knowledge	Motivation concept	====	====
19	2	knowledge		====	====
15	-	linowieuge	The importance of incentives		
			••••••		
20	2	knowledge		====	====
		_	Types of incentives		
21	2	knowledge	The concept of performance	====	====
		_	evaluation		
22	2	knowledge	The importance of	====	====
			performance evaluation		
23	2	knowledge	Performance evaluation	====	====
24	-	1m1- 1	objectives		
24	2	knowledge	Performance evaluation elements	====	====
25	2	knowledge	Basic rules for performance	====	====
25	∠	KIIOWICUge	evaluation		
26	2	knowledge	Benefits of performance	====	====
		into into ago	evaluation		
27	2	knowledge		====	====
-			Developing the performance		
		1	evaluation process		

28	2	knowledge	Stages of performance evaluation	====	====
29	2	knowledge	Leadership and administrative tasks of the administrative leader	====	====
30	2	knowledge	Supervisory methods	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)	not available				
Main references (sources)					
Recommended books and references	Towards the development of school administration ((theoretical and fie studies),				
(scientific journals, reports)	Psychology of school administration.				
Electronic References, Websites	Websites available on Google Chrome				

		000-00-	rescription rorm		
13.	Cour	se Name: Genetics			
14.	Cour	se Code:			
15.	Seme	ester / Year: 202٤/	/2020		
16.	Dosc	rintion Proparatio	n Date: ۲۰/۱/2020		
10.	Desc		II Date. • • / • / 202 •		
17.Ava	ailable A	Attendance Forms:			
18.Nu	mber of	Credit Hours (30h)	/ Number of Units (6))	
19.		rse administrator's			
		t. Prof. Dr. Arshad I	Naji Alhasnawi		
Em	ail: arsh	nad@mu.edu.iq			
20.	Cour	se Objectives			
Course Obj	ectives				out the basic
				of genetics x-linked tra	
			 Describes 	the basic st	
0.1	Ŧ		genetic ma	aterial	
21.	leac	hing and Learning S	Strategies		
Strategy					
		Presentation st	••		
		 Brainstorming Teamwork stress 			
		Teamwork straDiscussion stra			
		 Blended learni 			
			pplication strategy		
		 Interactive less 			
22. Cours	se Struc	ture			
Week	Hours	Required Learning	Unit or subject name	Learning	Evaluation
WEEK	nours	Required Learning	onit of Subject name	Loaning	

1	۲	1.Mendelian inheritance	· · · · · · · · · · · · · · · · · · ·	Use learning	•	View
				strategies		questions
۲	۲		cytological interpretation			and
1	1	r.Expansion of				answers
		Mendelian inheritance	co-dominance 3.Lethal genes, gene action		•	Presenting
	۲	r. Genes	overlap			and
٣	1	(All-1-c	4.Multiple alleles, heredity			interpreting
1		٤. Alleles	and sex, penetrance and			educational
٤	۲		gene expression 5.Quantitative genetics: the			situations
	,	•. Quantitative genetics	importance of multiple			
			genes, genetic Heritability,		•	The
0	۲		twins			student is
-	1		6.Genetic linkage and			assigned to
٦	۲	6. Genetic linkage and	crossing over: incomplete linkage, complete linkage,			write a
•	,	crossing over	crossing mechanism,			report
			factors affecting crossing		•	Tasks and
٧	۲		over			duties of
	'		7.How to draw genetic			Kozat
		v. Genetic maps	maps for eukaryotic organisms, comparison		_	
			between crossing over and		•	Monthly
٨	۲		exchange between sister			exams
	1	∧. Bacteria	chromatids			
	۲		8.Methods for the			
٩	,		emergence of new genetic structures in bacteria			
•		۹. Chromosomes	9. Sex chromosomes and			
	۲		sex determination in			
١.	1		various organisms			
, .		10. Chromosomal	10.Chromosomal mutations, chromosomal			
))	۲	mutations	abnormalities in humans			
	,	11.Cytoplasmic	11.Cytoplasmic inheritance			
		inheritance	and maternal influence,			
			shell wrapping in the shell			
١٢	۲		Lymnaea, as in Paramecium.			
		12. Mutations and	12.Mutations in			
١٣	۲	diseases	mitochondrial DNA in			
-			humans and some diseases			
		13. Synthesis DNA & RNA	13.Synthesis and molecular			
			analysis of genetic material DNA,			
			Experiments to prove that DNA is genetic material			
			And RNA is the genetic			
١٤	۲		material in some			
		14.DNA replication	14. DNA replication			
			Proof that multiplication is performed in a semi-			
10	۲		conservative manner.			
		15 First somester aver-	15. Replication enzymes			
١٦	۲	15. First semester exam	16. The role of RNA, the			
		16. The role of RNA	processes of cutting and			
			modification in its three			
) Y	۲		types			

			synthes, Genetic code and	
		17. Translation	its characteristics,	
			Cofactors, Construction of	
١٨	۲		the peptide chain	
			18.Development of the	
		18. One gene	theory of one gene - one	
		10. One gene	polypeptide chain, genetic	
			control of metabolism	
			19.Regulation of gene	
١٩	۲		expression in eukaryotic cells	
		19. Eukaryotic	20. Regulating gene	
۲.	۲	20 Declassication	expression in prokaryotes	
		20. Prokaryotes	21. Genetic mutation.	
۲۱	۲		Types according to	
		21. Genetic mutation	molecular changes,	
			mutation,	
			Mutations are caused by	
			radiation and some	
27	۲		22. DNA damage repair	
	,	:	systems,	
	۲	22. DNA damage	Transposable elements	
۲۳	· ·		23.Genomics	
11		rr. Genomics	Genomics: Structure of	
		11. Genomics	chromosomes, regulation of DNA sequences in them,	
			DNA extraction, and clones	
			24.Applying some	
۲٤	۲		literature on genetic	
			technology, such as genetic	
		24. Genetic technology	engineering, in diagnosing	
		Student seminar	some genetic diseases and	
			sorting DNA fingerprints Completing the human	
			genome project	
			Yo.Student seminar	
20	۲		26. Developmental	
77	2		genetics, Apoptosis,	
		25 semester exams	, How the niche state is	
		26.Developmental	revealed from the	
		genetics	organism's genome	
			27. Population genetics27.	
~	5		genetic repositories Hardy	
۲۷	۲		law, Weinberg, Gene	
		27.Population genetics	replication and influencing	
		-	genetic factors	
۲۸	۲		28.Genetics and	
			development:	
		28.Genetics and	Chromosomal changes	
		development:	and its relationship to the	
		Chromosomal changes	emergence of species,	
	۲	Chromosomai changes	The chromosome number	
۲٩	۲		doubled	
۳.	۲		ra Quiz	
			30. Second semester exam	
		ra. Quiz		

exam	
Course Evaluation	
The grade is distributed out of 100 according to daily preparation, daily, oral, monthly and writte calculated as follows: [Theoretical 27% (10% fin activities, assignments, attendance, reports, etc.] 5% second semester + 3% activities, assignment effort 40% annual effort + 60% final exam = 100% 24. Learning and Teaching Resources	en exams, reports, etc. The annual effort is rst semester + 10% second semester + 7%)] + [Practical 13% (5% first semester +
Required textbooks (curricular books, if any)	
Main references (sources)	 Arshad Naji Al-Hasnawi, Yasser Dakhil Al- Asadi, Zubaydah Adnan Al-Jashmi (2024) Principles of Genetics. Saad Jaber Taj El-Din, General Genetics, Abdul Hussein Al-Faisal .Genetics Snustad, D. P., & Simmons, M. J. (2015). Principles of genetics. John Wiley & Sons
Recommended books and references (scientific journals, reports)	Jorde, L. B., Carey, J. C., & Bamshad, M. J. (2015). Medical genetics e-Book. Elsevier Health Sciences. Griffiths, P., & Stotz, K. (2013). Genetics and philosophy: an introduction. Cambridge University Press Trivedi S. (Rehman H. (Saggu S. (Panneerselvam C. & Ghosh S. K. (2020). DNA barcoding and molecular phylogeny (Second.). Springer. MI Genetics Resource Center (2018). Genetic Inheritance Patterns. https://migrc.org/teaching tools/genetic-inheritance-patterns/
	10015/genetic-ninernance-patterns/

1. Course Name:

Curricula and teaching methods / third stage

2. Course Code:

CREQ 300

3. Semester / Year:

2024-2025

4. Description Preparation Date:

2025/1/27

5. Available Attendance Forms:

My presence

- 6. Number of Credit Hours (Total) / Number of Units (Total)
- 2 hours / number of units 4
 - 7. Course administrator's name (mention all, if more than one name)

Name: Duaa Raheem Katun

Email: duaa.raheem@mu.edu.iq

8. Course Objectives

Course Objectives	 Identifying the types of curricula and the foundations of
	their construction and principles
	The goals and beliefs that guide each individual's activity and
	provide him with the values he should
	To take it as a guide for his behavior in life.
	 Also learn about the elements of building curricula.
	 Identifying the content that achieves academic goals and
	methods
	Teaching aids and textbooks are important in the educational
	process.
	 Identify the behavioral objectives of the course and the
	conditions for its formulation and knowledge
	How to prepare daily and annual plans for the teacher
9. Teaching and Learning Strate	gies

Strategy	 Direct oral delivery Writing on the blackboard, and adopting a visual, educational-guided writing to confirm the information. PowerPoint presentation Discussion Cooperative learning

Week	Hours	Required	Unit or subject name	Learning	Evaluation
		Learning		method	method
		Outcomes			
The first week	2		Concept of science and technology Components of science and its characteristics	PowerPoint presenta And discuss	Oral question And daily exams
second week	2		Scientific thinking skills Philosophy of science teaching	PowerPoint presentation And discuss	Oral question And daily exams
the third week	2		Basic concepts in the curriculum The concept of method (logical and psychologic	And discuss	Oral question And daily exams
fourth week	2		Foundations of building the curriculum - Cognitive basis. - Social basis. - Psychological basis. - Philosophical basis.	PowerPoint presentation And discus	Oral question And daily exams
The fifth week	2		Types of curricula - Separate subjects curriculum - Activity curriculum - Units curriculum - Broad field approach Core curriculum	PowerPoint presentation And discuss	Oral question And daily exams
the sixth week	2		Curriculum elements/curriculum as a four-part system - The meaning and importance of educational objectives Sources for deriving educational objectives	And discuss	Oral question And daily exams
			Levels of educational objectives (general, specil	PowerPoint presentation And discuss	Oral question And daily exams
Seventh week	2		hehavioral)	PowerPoint presentation	Oral question And daily exams
The eighth week	2		Classification of behavioral purposes Objectives of teaching science at this stage	And discuss PowerPoint presentation	Oral question
Week nine	2		public education Practical applications	And discuss PowerPoint presentation And discuss	And daily exams Oral question
The tenth week	2		Educational content and experiences - The concept of content, scientific experience Rules for choosing a curriculum (knowledge an educational experiences)		And daily exams
			Organizing curriculum content	And discuss	Oral question

Week eleven	2	Practical applications/contents of science curr		And daily exams
		in general education	PowerPoint presentation	
			And discuss	Oral question
		Teaching methods related to behavioral theorie		And daily exams
The twelfth week	2	- Programming/computer education	PowerPoint	
			presentation	
		Teaching methods related to behavioral theorie	And discuss	Oral question
		- Cooperative education		And daily exams
The thirteenth	2	- Assembly discussions. - Projects		
week		Educational games	PowerPoint	
			presentation	Oral question
		Other teaching methods	And discuss	And daily exams
	2	Direct presentation, interrogation, field visits,		5
The fourteenth week	2	preparing reports	PowerPoint	
			presentation	
The fifteenth week	2	Other teaching methods Direct presentation, interrogation, field visits,	And discuss	Oral question And daily exams
The Inteenth week	2	preparing reports		And daily exams
			PowerPoint	
		Educational technologies (their surgery lite	presentation And discuss	Oral question And daily exams
Sixteenth week	2	Educational technologies/their concept and typ Practical applications on preparing and using	min discuss	And daily exams
SIALEEIILII WEEK	<u>ک</u>	educational technologies.	DoworDoint	
			PowerPoint presentation	
		Calendar	And discuss	Oral question
Seventeenth week	2	- Its concept, characteristics, types.		And daily exams
Seventeentii week	2	Curriculum evaluation	PowerPoint	
			presentation	
		Specifications and characteristics of classroom questions and their types	And discuss	Oral question
Eighteenth week	2	General principles for formulating and using		And daily exams
Lighteenth week	2	classroom questions.		
		General guidelines for increasing the adequacy		
		classroom questions		
		school book:	PowerPoint	
Week nineteen	2	Its importance and function	presentation And discuss	Oral question
	_	Basics of its preparation	Tinu discuss	And daily exams
			PowerPoint	
		Characteristics of a good textbook	presentation	Oral question
The twentieth week	2	Practical applications (textbook content analys	And discuss	And daily exams
			PowerPoint	
		Planning in teaching	presentation	Oral question
Twenty-first week	2	The concept of planning and its importance	And discuss	And daily exams
		Annual plan	PowerPoint	
		Quarterly plan	presentation And discuss	Oral question
Twenty-second week	2			And daily exams
			PowerPoint	
		Daily plan	presentation	Oral question
		Practical applications	And discuss	And daily exams
Twenty-third week	2			
		Effective classroom learning.	PowerPoint	Oral question
		Principles that are taken into account for effect teaching.	presentation	And daily exams
Twonty farmel	2	Characteristics of an effective learner	And discuss	
Twenty-fourth week	2	Educational competencies necessary for a scien	1	
		teacher		

Twenty-fifth week	2	Characteristics of a good teacher Distinctive characteristics of two models of teachers Characteristics of a creative or innovative teach Characteristics of a skilled craftsman teacher	PowerPoint presentation And discuss	Oral question And daily exams
Twenty-sixth week	2	Individual education for people with special needs and integrated education.	PowerPoint presentation And discuss	Oral question And daily exams
Twenty-seventh week	2	The importance of the laboratory in teaching science Types of illustrative experiments in terms of presenting them	PowerPoint presentation And discuss	Oral question And daily exams
Twenty-eighth week	2	Use picture puzzles Field or field work The importance of field or field work methods Conditions that must be taken into account in fieldwork.	PowerPoint presentation And discuss	Oral question And daily exams
Twenty-ninth week	2	The six hats in teaching students with learning difficulties Professional ethics.	PowerPoint presentation And discuss	Oral question And daily exams
the third week	2	Professional ethics. Discussion method Conditions for the discussion method and procedures Advantages of the discussion method Disadvantages of the discussion method Discussion methods	PowerPoint presentation And discuss	PowerPoint presentation And discuss

Distribution is as follows: 25 marks for monthly and daily exams for the first semester. 25 marks for monthly and daily exams for the second semester. 50 marks for final exams

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Modern trends in science teaching
Main references (sources)	educational subjects What's new in science teaching
Recommended books and references (scientific journals, reports)	 The successful teacher Methods of teaching science Modern models and teaching method
Electronic References, Websites	Borsippa Library Al Noor Library <u>https://almo3allem.com</u>

1. Course Name:				
Foundations of scientific research				
2. Course Code:				
CREQ301				
3. Semester / Year:				
7.70_7.72				
4. Description Preparation Date:				
7.70_7.72				
5. Available Attendance Forms				
: Daily attendance				
6. Number of Credit Hours (Total)	/ Number of Units (Total):			
۲ hours (theoretical)				
7. Course administrator's name	(mention all, if more than one name)			
Name: Assist. Pro.dr. Nadia Hus	ssein Ali			
Email: <u>nadiasaoudi@mu.edu.iq</u>				
8. Course Objectives				
Course Objectives Introducing the student to studying meaning of scientific research, its types goals, and in-depth studying research, the historical, experimental descriptive approach.				
9. Teaching and Learning Strategie	S			
Strategy1- Lecture, use of the blac2- Demonstration (using g using a data projector)3- Interactive discussion 4- Self-education	kboard and presentation graphs, pictures and educational films			

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	knowledge	Science: Definition of science, the origins of science and its development	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the Classroom platform	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports
2	2	knowledge	The difference between science	====	====

			and knowledge, scientific		
			thinking and its basics		
3	2	knowledge	Science and its goals	====	====
4	2	knowledge	Scientific research and its	====	====
			relationship to science, the		
			development of the concept of		
			publishing scientific research		
5	2	knowledge	Search Plan	====	====
6	2	knowledge	The concept of the problem and	====	====
		5	its characteristics		
7	2	knowledge	How to formulate the problem	====	====
8	2	knowledge	Assumptions	====	====
		Kilowicuge			
9	2	knowledge	Research plan and framework	====	====
10	2	knowledge	Scientific research methods and	====	====
		5	tools, survey method and tools		
11	2	knowledge	The descriptive method and its	====	====
			tools, the experimental method		
			and its tools		
12	2	knowledge	Statistical method, case study	====	====
			method, comparative method		
13	2	knowledge	Writing down the scientific	====	====
		8	research title, formulating the		
			research title		
14	2	knowledge	Writing down the main	====	====
17	-	Miowiedge	paragraphs of the research, the		
			introduction, and ways to refer		
			to references, writing down the		
			materials paragraph and		
			working methods		
15	2	Imorriladaa	Collect sources or references		
-	2	knowledge		====	====
16		knowledge	Style of writing sources	====	====
17	2	knowledge	Preparing a list of references,	====	====
			methods of writing them down,		
			books written and translated, research and reports		
18	2	knowledge		====	====
-		-	Research writing structure		
19	2	knowledge		====	====
			Measurement		
20	2	knowledge	Data collection tools	====	====
			(questionnaire)		
21	2	knowledge	the interview	====	====
22	2	knowledge	Note	====	====
23	2	knowledge	Served 1	====	====
			Samples		
24	2	knowledge	Types of samples	====	====
					<u> </u>
25	2	knowledge	Sample selection methods	====	====
26	2	knowledge	Sample selection conditions	====	====
			Sample selection conditions		<u> </u>
27	2	knowledge	How to write reports and	====	====
			their types		
					<u> </u>
28	2	knowledge	Meaning of quotation and	====	====
			notation		
29	2	knowledge	Quotation terms	====	====
	-	inio wieuge	Quotation terms		

30	2	knowledge	The final output of the research	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12.	Learning	and	Teaching	Resources
-----	----------	-----	----------	-----------

Required textbooks (curricular books, if any)	not available
Main references (sources)	Curricula and lectures in scientific research
Recommended books and references	Curricula and lectures in scientific research
(scientific journals, reports)	
Electronic References, Websites	Websites available on Google Chrome

نموذج وصف المقرر

يوفر وصف المقرر هذا ايجازا مقتضيا لاهم خصائص المقرر ومخرجات المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهنا عما اذا كان قد حقق الاستفادة من فرص التعلم المتاحة . ولابد من الربط بينها وبين وصف البرنامج ؛

	.	
كلية التربية ابن رشد للعلوم الانسانية	المؤسسة التعليمية	.)
علوم الحياة	القسم العلمي	۲.
		-
الارشاد والصحة النفسية	اسم / رمز المقرر	۳.
يومية	اشكال الحضور المتاحة	.٤
7.70/7.72	الفصل / السنة	.0
/ساعتان اسبوعيا	عدد الساعات الدراسية (الكلي)	٦.
7.70/1/71	تاريخ اعداد هذا الوصف	.۷
م. دعباس عذيب عبدالله	اسم مسؤول المقرر الدراسي	۸.
 ١- تعريف الطلبة بمفهوم الإرشاد ونشأته وتطوره 	اهداف المقرر	.٩
ومناهجه		
٢- تعريف الطلبة بالمرشد التربوي وطرق اعداده		
٣- تعريف الطلبة بكيفية تحقيق التوافق الشخصىي		
مع النفس والرضا عنها وأشبعا الدوافع		
والحاجات الداخلية والاولية والفطرية.		
٤- مساعدة الطلبة على تكيف مع نفسة ومع بيئته		
وعلى اختيار تخصص الدراسي الملائم له		
 ما تنمية الاتجاهات والميول الايجابية لدى الطلبة 		
للقيام بمهنة المرشد التربوي		

	١٠- مخرجات المقرر وطرائق التعليم والتعلم والتقييم
	الأهداف المعرفية
	أ ١. تمكين الطلبة من معرفة مبادئ علم الارشاد والتوجيه والصحة النفسية
	أ٢. اعداد الطلبة نفسيا وتربوبا لمهنة التدريس
	أ٣. وقاية الطلبة من الوقوع في المشكلات ومساعدتهم على اتخاذ قراراتهم بأنفسهم
	أع. مساعدة الطلبة على تحقيق الذات
	أه. جعل الطلبة قادرين على التعبير الذاتي وعن مشكلاتهم الاجتماعية والمدرسية
رية المختلفة	أ٦. مساعدة الطلبة على التخلص من التوتر والقلق والخوف والتكيف مع المراحل العم
-	الأهداف المهاراتية الخاصة بالمقرر .
	ب ١ – خلق الدافعية لدى الطلبة للقيام بمهام المرشد التربوي
	ب٢ – تنمية اتجاهات الطلبة نحو تكوين علاقات ايجابية في المجتمع
	ب٣. تتمية مهارة التوجيه لدى الطلبة وتدريبهم عليها
	طرائق التعليم والتعلم
	طريفة المحاضرة
	طريقة المناقشة
	طريقة الحور
	طرح الاسئلة
	طرائق التقييم
	مشاركة اليومية للطلاب
	المناقشة أثناء المحاضرات
	التقويم المستمر بالواجبات المطلوبة
	الاختبارات والأنشطة التعاونية
	ج- الأهداف الوجدانية والقيمية
	ب١. تعليم الطلبة روح المبادرة والعمل بروح الفريق واحترام الاخرين والسلوك الاجتماعي.
	ب٢- أثارة دافعية الطلبة للدراسة وتنظيم أوقاته لذلك الغرض
	ب٣– تنمية اتجاهات وميول الطلبة وتطوير قابلياتهم في اتجاه مهنة التدريس والارشاد النفسي
	ج٤- تعليم الطلبة تحمل المسؤولية الشخصية
	طرائق التعليم والتعلم
	– طريقة الحور
	- المناقشة الفردية والجماعية
	– التعلم التعاوني
	طرائق التقييم
	مشاركة اليومية للطلاب
	تغذية الراجعة الفورية

المناقشة أثناء المحاضرات التقويم المستمر بالواجبات المطلوبة الاختبارات

الأنشطة التعاونية

١٠–المهارات العامة والتأهيلية المنقولة (المهارات الأخرى المتعلقة بقابلية التوظيف والتطور الشخصي). د١– تعريفهم بطرائق التدريس الحديثة د٢– تعريفهم بالوسائل الارشادية الحديثة وكيفية استعمالها في الارشاد د٤– اطلاع الطلبة على المستحدثات العلمية في الارشاد والصحة النفسية التنسيق مع الجهات المختصة

١١. بنية المقرر

طريقة	طريقة	اسم الوحدة أو الموضوع	مخرجات التعلم المطلوبة	الساعا	الأسبوع
التقييم	التعليم			ت	
امتحان	الكتروذ	الفصل الاول :مدخل لدراسة	مدخل لدراسة الارشاد:	۲	الاسبوع الاول
	ي	الارشاد النفسي	النفسي		
=	=	ما هو علم النفس	ما هو علم النفس	۲	الاسبوع الثاني
=	=	٢. مجالات علم النفس وفروعه	 مجالات علم النفس 	۲	الاسبوع الثالث
			وفروعه		
=	=	٣.نبذة مختصرة عن تطور	۳.نبذة مختصرة عن	٢	الاسبوع الرابع
		الإرشاد النفسي	تطور الإرشاد النفسي		
=	=	٤ .اهمية الارشاد النفسي	٤ .اهمية الارشاد النفسي	۲	الاسبوع
					الخامس
=	=	 هداف الارشاد النفسي 	 هداف الارشاد 	۲	الاسبوع
		والتوجية التربوي	النفسي والتوجية التربوي		السادس
=	==	 مبررات الارشاد النفسي 	 مبررات الارشاد 	٢	الاسبوع السابع
			النفسي		
==	=	٧. لمحة تاريخية عن المرشد	٧. لمحة تاريخية عن	٢	الاسبوع الثامن
		النفسي الطلابي	المرشد النفسي الطلابي		
=	=	 ٨. أعداد المرشد وتدريبة 	 ٨. أعداد المرشد وتدريبة 	۲	الاسبوع التاسع

- 					
=	=	٩. اخلاقيات المرشد	٩. اخلاقيات المرشد	۲	الاسبوع العاشر
=	==	١٠. مهام المرشد الطلابي	١٠. مهام المرشد		الاسبوع الحادي
			الطلابي		عشر
		ti iiati i .ti	ti 11÷ti 1 - ti	۲	-1411 - N1
=	==	الفصل الثاني :اساليب	الفصل الثاني :اساليب	١	الاسبوع الثاني
		الارشادية	الارشادية		عشر
=	=	 ۲. الإرشاد المباشر 	 الإرشاد 	۲	الاسبوع الثالث
			المباشر		عشر
=	=	 الإرشاد غير مباشر 	٣. الإرشاد غير	۲	الاسبوع الرابع
			مباشر		عشر
=	=	 ۲. الإرشاد الفردي 	 الإرشاد الفردي 	۲	الاسبوع
					الخامس عشر
=	=	 ٨. الإرشاد الجماعي 	٧. الإرشاد	۲	الاسبوع
			الجماعي		السادس عشر
=	=	١٠.الإرشاد عن طريق	٩. الإرشاد عن	٢	الاسبوع السابع
		اللعب للأطفال	طريق اللعب		عشر
			للأطفال		
=	=	١٢.الإرشاد السلوكي	١١. الإرشاد	۲	الاسبوع الثامن
			السلوكي		عشر
=	=	الفصل الثالث: علاقة الإرشاد	الفصل الثالث: علاقة	٢	الاسبوع التاسع
		النفسي بالعلوم الاخرى	الإرشاد النفسي بالعلوم		عشر
			الاخرى		
=	=	الأسس العلمية للإرشاد النفسي	الأسس العلمية للإرشاد	۲	الاسبوع
		والتربوي	النفسي والتربوي		العشرون
=	=	الفصل الرابع: نظريات الارشاد	الفصل الرابع: نظريات	۲	الاسبوع الحادي
		النفسي	الارشاد النفسي		والعشرون
=	=	.نظرية الذات	نظرية الذات.	۲	الاسبوع الثاني
					والعشرون
=	=	٢ .نظرية الارشاد العقلاني	٢ .نظرية الأرشاد	۲	الاسبوع الثالث
			العقلاني		والعشرون
=	=	٣.النظرية السلوكية نظرية	٣.النظرية السلوكية	۲	الاسبوع الرابع
					والعشرون

	1				
		التحليل النفسي	نظرية التحليل النفسي		
=	=	الفصل الخامس: وسائل جمع	الفصل الخامس: وسائل	٢	الاسبوع
		المعلومات	جمع المعلومات		الخامس
					والعشرون
==	=	 الاختبارات والمقاييس 	١. الاختبارات		الاسبوع
			والمقاييس		السادس
					والعشرون
=	=	٤. الاستبيان	۳. الاستبيان		السابع
					والعشرون
=	=	 ۲. المقابلة الارشادية 	 المقابلة 		السابع
			الارشادية		والعسرون
=	=	 دراسة الحالة 	٧. دراسة الحالة		الاسبوع الثامن
=	=	 ١٠ السجل التراكمي 	٩. السجل		والعشرون
		المجمع	التراكمي		
			المجمع		
=	=	١٢. السيرة الشخصية	١١. السيرة		
			الشخصية		
=	=	الفصل السادس: الارشاد	الفصل السادس: الارشاد	۲	التاسع
		التربوي في المدرسة	التربوي في المدرسة		والعشرون
=	=	-	التربوي في المدرسة ١.المدرس المرشد إعداده		والعشرون الاسبوع
=	=	-	-		
=	=	المدرس المرشد إعداده	- المدرس المرشد إعداده ا		الاسبوع
=	=	ا المدرس المرشد إعداده وأهميته وظائفه ۲.الاهداف العامة لمجلس	ا .المدرس المرشد إعداده وأهميته وظائفه ۲.الاهداف العامة		الاسبوع
=	=	ا المدرس المرشد إعداده وأهميته وظائفه ۲.الاهداف العامة لمجلس	ا المدرس المرشد إعداده وأهميته وظائفه		الاسبوع
=	=	ا المدرس المرشد إعداده وأهميته وظائفه ۲.الاهداف العامة لمجلس	ا .المدرس المرشد إعداده وأهميته وظائفه ۲.الاهداف العامة		الاسبوع
=	=	 ١. المدرس المرشد إعداده وأهميته وظائفه ٢. الاهداف العامة لمجلس الاباء والمدرسين 	ا .المدرس المرشد إعداده وأهميته وظائفه ۲.الاهداف العامة لمجلس الاباء والمدرسين		الاسبوع
=	=	 ١. المدرس المرشد إعداده وأهميته وظائفه ٢. الاهداف العامة لمجلس الاباء والمدرسين ٣.دور مجالس الآباء في عملية 	 ۱. المدرس المرشد إعداده وأهميته وظائفه ۲. الاهداف العامة لمجلس الاباء والمدرسين ۳. دور مجالس الآباء 		الاسبوع

	١٢ – البنية التحتية
–الارشاد والصحة النفسية / د . حسن السيد د. صاحب مرزوك	 ١ – الكتب المقررة المطلوبة

كتاب الصحة النفسية والعلاج النفسي/د.حامد عبد السلام زهران	٢- المراجع الرئيسية (المصادر)
مجلة الإرشاد النفسي	الكتب والمراجع التي يوصي بها
	(المجلات العلمية , التقارير)
اكاديمية علم النفس / ويكبيديا / الموسوعة العربية للإرشاد والعلاج	المراجع الالكترونية , مواقع
النفسي/ موقع مركز الإرشاد النفسي بمعهد الدراسات التربوية جامعة	الانترنيت
القاهرة/ شبكة العلوم النفسية العربية/ مركز الدراسات التربوية	
الأبحاث النفسية/ مركز البحوث والدراسات النفسية/	

١٣– خطة تطوير المقرر الدراسي

.١ جعل فترة اكبر للتطبيق العملي في المدارس

۲. اطلاع الطلبة على اخر المستحدثات في ميدان الارشاد والصحة النفسية

٣.تبادل الخبرات بين أعضاء هيئة التدريس.

٤ .مواكبة التطورات في طبيعة العمل في مجال الإرشاد والتوجيه النفسي

25.	Course Name:					
Parasitolo	Parasitology					
26.	Course Code:					
Bio 400						
27.	Semester / Year:					
2024-2025	5					
28.	Description Preparation Date:					
2024-2025	5					
29.Avai	lable Attendance Forms					
: Da	ily attendance					
30.Num	ber of Credit Hours (Total) / Nun	nber of Units (Total):				
۲ho	ours (theoretical) + 2 hours (practi					
31.	Course administrator's name	e (mention all, if more than one				
nam						
	e: Pro.dr. yassir dakheel kremsh	alasadiy				
Ema	il: dr.yassiralasadiy@mu.edu.iq					
32.	Course Objectives					
Course Objec	Course Objectives Give a general idea of parasites with clarifying the relationship of these organisms with other organisms from where be affected and effect and what are the most important diseases caused by these organisms					
33.	Teaching and Learning Strategi	ies				
Strategy	1- Lecture, use of the blackboa	rd and presentation				
	2- Demonstration (using graph	ns, pictures and educational films				
	using a data projector)					
	3- Interactive discussion					
	4- Self-education					

34. Cou	34. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method		
1	4	knowledge	Introduction of parasitology Public relations between animals	-Lecture, use of the blackboard and presentation -Demonstration (using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the Classroom platform	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports		
2	4	knowledge	Advantages of parasitism A -	====	====		

		1			
			The benefits that parasites		
			gain from their hosts - The		
			harms that parasites gain from their hosts		
3	4	knowledge	types of parasitism, types of	====	====
5	-	KIIOWIEuge	parasites and hosts		
4	4	knowledge	Parasitism in the animal	====	====
		0	kingdom, infectious stages,		
			sources of infection		
5	4	knowledge	Entrances and exits of infection,	====	====
			factors affecting the spread and		
			density of parasites, and the		
			stages that the parasite goes		
			through		
6	4	knowledge	Phylum: protozoa ,	====	====
			characteristics and		
			manifestations of the phylum		
			(characteristics of the Phylum:		
			protozoa, body composition)		
			Life aspects of the Division		
			(nutrition, movement,		
			respiration, secretion,		
			reproduction, secretion,		
			growth, response to stimuli,		
			ticking, classification of		
			protozoa)		
7	4	knowledge	Class: Sarcodina	====	====
		_	Entamoeba histolytica		
			Entamoeba coli		
8	4	knowledge	Endolimax nana	====	====
		_	lodomoeba butschlii		
			Dientamoeba fragilis		
			Entamoeba gingivalis		
			free living amoeba		
			[Naegleria fowleri]		
			[Acanthamoeba spp.]		
9	4	knowledge	Class: Mastigophora	====	====
			1- Giardia intestinalis		
10	4	knowledge	2-Chiomastix mesnili	====	====
			3-Trichomonas vaginalis		
			4-T.tenax		
			5-T. hominis		
			6-T. foetus		
11	4	knowledge	Blood and tissue Mastigophora	====	====
			2- Leishmania tropica		
40		V. 1.1.	1- L.donovani		
12	4	Knowledge	Trypanosoma gambianse	====	====
			T. cruzi		
			Class: sporozoa		
			Plasmodium vivax ,P. ovale ,P.		
12	-	V	malarae, P. falciparum)		
13	4	Knowledge	Topxoplasma gondii	====	====
14	4	knowledge	Class: Ciliophora	====	====
			Blantidium coli		
			All parasites mentioned above		
			are studied in the form and		
	1		composition of the parasite, life		

			cycle nathology onidemiclogy		
			cycle, pathology, epidemiology,		
15	4	Knowledge	diagnosis, prevention Phylum: Platyhelminthes		
15	4	Kilowieuge	Characteristics of the Division	====	====
			of flatworms, body wall		
			installation, gastrointestinal		
			tract, urinary system, nervous		
			system, reproductive system,		
			life cycle		
16	4	Knowledge	Class;Trematoda	====	====
			((Characteristics of the class		
			and Orders)		
			1-Liver fluckes		
			Fasciola hepatic		
			Clonorchis sinensis		
			2-Intestinal fluckes		
			Fasciolopsis buski		
			Heterophyes heterophye		
17	4	Knowledge	Blood fluckes		====
17	-	Kilowiedge	Schistosomatidae		
			Scistosoma haematobium		
			S.mansoni		
			S. Jpanicum		
18	4	Knowledge	5. spancum	====	====
10	-	Kilowiedge	Lung fluckes		
			Paragonimus westermai		
			5		
19	4	Knowledge	Class: Cestoda	====	====
			Characteristics of the class		
			,body wall installation, body		
			system, life cycle		
20	4	Knowledge	Pseudophyllidae Order:	====	====
		0	Diphllobothrium latum		
			Order : Cyclophyllidae		
			Taenia saginata		
			T. solium		
			Echinococcus granulosius		
			Dipylidium caninum		
			All parasites mentioned above		
			are studied in the form and		
			composition of the parasite, life		
			cycle, pathology, epidemiology,		
			diagnosis, prevention		
21	4	Knowledge	Phyulum : Nematoda	====	====
			1- Trichinella spiralis		
			2-Trichuris trichura		
22	4	Knowledge	3-Ascaris lumbricoides	====	====
			4-Ancylostoma duodnale		
			5-Strongyloides stercoralis		
			All parasites mentioned above		
			are studied in the form and		
			composition of the parasite, life		
			cycle, pathology, epidemiology,		
			diagnosis, prevention		
23	4	Knowledge	6-Wuchereria bancrofti		====
			7-Dranculus medinesis		
			All parasites mentioned above		

			are studied in the form and composition of the parasite, life cycle, pathology, epidemiology, diagnosis, prevention		
24	4	Knowledge	Phylum : Arthropda Characteristics of the class ,body wall installation, body system, life cycle	====	====
25	4	Knowledge	Classification Class:Insect Musca domestica Stomoxys calcitrans Phlebotomus papata		
26	4	Knowledge	Glossina Sarchophagidae Myiasis Mosquites		
27	4	Knowledge	Lice A- Sucking lice (human lice, pubic lice) B- Biting lice 1- Poultry lice, Menopon Gallinae	====	====
28	4	Knowledge	Menacanthus stramineus Fleas) Pulex irritanus Ctenocephalides		====
29	4	Knowledge	1- Class: Arachnida Order:Acarina A-Ticks	====	====
30	4	Knowledge	B-Mites)- Order: Scorpionoidea)- Order Arenea	====	

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

40 marks (5marks for the first monthly exam + 5 marks for the second monthly exam + 10 marks for the midterm exam) + 10 marks for daily preparation and daily tests + 5 marks for the first practical exam + 5 marks for the second monthly practical exam)

60 marks (20 marks final practical exam + 40 marks final theoretical exam)

36. Learning and Teaching Resources

Required textbooks (curricular books, if any)	not available
Main references (sources)	Atlas of medical Helminthology and protozoology-H.C.Jeffrey and R.M.Leach.third edition – 1993 Parasitology - v- medical microbiology-2005 Parasitology –Ismail AL-Hadithi and A.H.Awad – 2015 Paniker's Textbook of Medical Parasitology, seventh edition, Ck Jayaram Paniker,2013
Recommended books and reference	S Parasitology –Ismail AL-Hadithi and A.H.Awad – 2015

(scientific journals, reports)	
Electronic References, Websites	Websites available on Google Chrome (CDC)

1. Course Name:						
Animal physiology	Animal physiology					
2. Course Code:						
Bio 402						
3. Semester / Yea	r:					
2024-2025						
4. Description Pre	eparation Date:					
2024-2025						
5. Available Attend	dance Forms					
: Daily attendan	nce					
6. Number of Cred	lit Hours (Total) / Number of Units (Total) :					
7. Course admini	strator's name (mention all, if more than one name)					
Name: Assist. I	Prof. Eqbal Awadh Gatea Email: <u>eq_bio2013@mu.edu.i</u>					
8. Course Objectiv	ves					
	physiology is concerned with studying the physiology and various body systems and their mechanisms of action, the relationship between the body systems, and the functional and physiological					
9. Teaching and Learning Strategies						
2- Demonstr 3- Teaching 4- Interactiv 5- Practical	use of the blackboard, and delivery ration (using diagrams and educational pictures using datashows, videos) through exploratory lecture re discussion tests used in laboratories					
 : Daily attendam 6. Number of Cred 7. Course admining Name: Assist. If 8. Course Objective Course Objectives 9. Teaching and Letter Strategy 1- Lecture, u 2- Demonstration 3- Teaching 4- Interactive 5- Practical to 	hce lit Hours (Total) / Number of Units (Total) : strator's name (mention all, if more than one name) Prof. Eqbal Awadh Gatea Email: eq_bio2013@mu.edu.i res Introducing the student to physiology and its importance, as physiology is concerned with studying the physiology and various body systems and their mechanisms of action, the relationship between the body systems, and the functional and physiological adaptations that help the living organism to survive. earning Strategies use of the blackboard, and delivery ration (using diagrams and educational pictures using datashows, videos) through exploratory lecture re discussion					

10. Co	10. Course Structure					
Week						
1	2	knowledge	Introduction to Physiology,	Lecture, use of the	Theoretical,	
			its Principles and	blackboard, and	practical/oral	
			Applications	delivery	and written	
				, Demonstration	examinations	
				(using diagrams	(daily,	
				and educational	monthly and	
				pictures using	midterm	

				datashows,	exam) and
				videos), Teaching	scientific
				through	reports
				exploratory	
				lecture,	
				Interactive	
				discussion,	
				Practical tests	
				used in	
				laboratories, E-	
				learning using	
				Google	
				Classroom	
				platforms	
2	2	knowledge	Physiological Effect of Heat	====	====
3	2	knowledge	Physiology of the Urinary System	====	====
4	2	knowledge	Body fluids, kidney structure and function	====	
5	2	knowledge	Water and ions balance	====	====
6	2	knowledge	Desert animals	====	====
7	2	knowledge	Physiology of nervous systems	====	====
8	2	knowledge	Generation of nervous impulses	====	
9	2	knowledge	Electrical conduction	====	====
10	2	knowledge	Neuron cell interconnection	====	====
11	2	knowledge	Physiology of the Muscular System	====	
12	2	knowledge	Types of Muscles	====	====
13	2	knowledge	Filamentary Sliding Theory	====	====
14	2	knowledge	Control of Contraction	====	====
15	2	knowledge	Physiology of the Respiratory System	====	
16	2	knowledge	First Semester Exam	====	====
17	2	knowledge	Breathing and Pulmonary Ventilation	====	
18	2	knowledge	Oxygen transport and gas exchange	====	====
19	2	knowledge	Circulatory systems	====	====
20	2	knowledge	Blood, blood composition and plasma	====	====
21	2	knowledge	Blood clotting and Rh factor	====	====
22	2	knowledge	Lymphatic system	====	====
23	2	knowledge	Physiology of the digestive system	====	
24	2	knowledge	Salivary glands Components of saliva	====	====
25	2	knowledge	Digestion in the stomach	====	====
26	2	knowledge	Digestion in the intestines	====	====
			Digestion in the intestines		

27	2	knowledge	Absorption process in the digestive system	====	====
28	2	knowledge	Control of intestinal and stomach digestion	====	====
29	2	knowledge	Water balance and factors affecting it	====	====
30	2	knowledge	second-semester exam	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests)

60 marks (40 marks final theoretical exam)

12. Learning and Teaching Resources				
Required textbooks (curricular books, if any)	General Basics in Physiology Dr. Rushdi Fattouh Animal Physiology Dr. Youssef Mohar Arab and others			
Main references (sources)	Guyton and Hall Textbook of Medical Physiology			
Recommended books and references (scientific journals, reports)	Animal anatomy and physiology			
Electronic References, Websites	Websites available on internet			

		Outcomes	name	methoa	methou
WEEK	nours	Required Learning Outcomes	-	Learning method	method
46. Cours	Hours		Unit or subject	Learning	Evaluation
45. Strategy		Interactive less	trategy strategy ategy ategy ng strategy pplication strategy	7	
Course Obj	ectives		princip • Explain • Filterin	dent learns at les of plant ph ing plant phys g the basic str ogical process	ysiology siology ructure of
44.		se Objectives			
		t. Prof. Dr. Arshad I 1ad@mu.edu.iq	Naji Alhasnawi		
43.	Cour	se administrator's	name		
42.Nu	mber of	Credit Hours (30h)	/ Number of Units ((6)	
41.Ava	ailable A	Attendance Forms:			
40.	Desc	ription Preparation	n Date: ۲۰/۱/202°	,	
39.	Seme	ester / Year: 202٤/	′202°		
38.	Cour	se Code:			
	doar	se Name: Plant Phy	y 510106y		

١	۲	1. Introduction to the	1. Plant physiology	Use	•	View
,	'	concept of plant	., .,	learning		
		physiology, its		strategies		questions
		importance, and its		e		and
		relationship to the				answers
		branches of science, its				
		properties, and the			•	Presenting
		reasons for acquiring				and
		those properties,				interpreting
		solutions, and the				
		colloidal system.				educational
		2. Water relations of the	2. Water relations of the			situations
۲	۲	plant cell	plant cell		•	The
		3. Diffusion: the	3. Diffusion			
٣	۲	concept, the diffusion of			:	student is
		gases and their				assigned to
		properties, and osmosis:				-
		the concept, ideal				write a
		conditions, semi-mature				report
		and selective			•	Tasks and
		membranes (plant				
		membranes)				duties of
		4. Osmotic and water	4. Water potential			Kozat
		potential, pressure and	n maior potential			
٤	۲	the relationship between			•	Monthly
		them, plasma				exams
		contraction (plasma,				
		methods of measuring				
		types of potential)				
		5. Phloem transport,	5. Phloem transport			
0	۲	water absorption and	5. Theom transport			
		transport in plants:				
		concept, mechanisms				
		and influencing factors				
	۲	6 Transpiration: the	6. Transpiration			
٦	1	concept, stomata and	o. manspiration			
•		their distribution, the				
		mechanism of opening				
		and closing stomata,				
		factors affecting				
		transpiration				
		7. Mineral nutrition for	7. Mineral nutrition of the			
		plants: mineral plant	plant			
	۲	components, methods	I ··· ·			
٧		of studying them, basic				
		elements (macro, micro,				
		and beneficial				
		nutrients), passive				
		absorption and its				
		mechanisms.				
		8. Effective absorption:	8. Effective absorption			
		concept, evidence,				
٨	۲	mechanism, functions				
٨		or physiological				
		importance of the				
		essential elements				
		9. Photosynthesis:	9. Photosynthesis			
		overview, pigments,	2.1 notosynutosis			
		absorption spectrum				
		and action spectrum,				
٩	۲	light and visible				
		spectrum		1		

		I		1
		10. Light reactions: the	10. Light reactions	
		origin of oxygen and		
		evidence, electron		
	۲	transfer, the Emberson		
Λ.	· · ·	effect, the two		
١.		photosystems, and		
		photophosphorylation.	11. Dark interactions	
		11. Darkness reactions:		
		C3 and C4 plants		
		Calvin Wahagh Slack		
		and CAM,		
))	۲	photorespiration.		
11		12. Factors affecting	12. Phloem transport	
		photosynthesis and	• • •	
		phloem transport:		
		general overview,		
۱۲	۲	features, and		
		mechanism		
		13. Respiration:	13. Breathing	
		glycosylation and the		
		Cres cycle, the pentose		
		pathway (the fourth		
		week of		
١٣	۲	phosphorylation and		
)	glyoxylate, the		
		respiratory factor).	14 Diant growth and	
		14. Plant growth and	14. Plant growth and	
		formation: the concept	formation	
		of growth, formation		
		and development,		
	۲	places (the first week of		
١٤		growth and types of		
		meristems, growth	15. Exam	
		kinetics)		
		15. Exam	16. Growth regulators and	
		16. Growth regulators	plant hormones	
		and plant hormones:		
		definitions, auxins		
		(discovery, distribution		
		in plants, transport,	17. Physiological effects	
10	۲	plant biosynthesis.		
, -		17. Effects,		
١٦	۲	physiological,	18. Gibberellins and	
		sensitivity of plant	cytokines	
		organs, decay	Cytokines	
		18. Gibberellins and		
		cytokines: discovery	19. Acidic acid and	
		and physiological		
١٧	۲	effects	ethylene	
	· ·	19. Acidic acid and	20 Photoporied	
		ethylene: discovery and	20. Photoperiod	
١٨	۲	physiological effects	21. Discussing reports	
)	20. Photoperiod and	22. Phytochrome	
		flowering, panicle	23. Plant movements	
		21. Discussing reports		
		22. Phytochrome:	24. Germination	
١٩	۲	concept, conditions and	25. Exam	
		physiological effects		
		23. Plant movements:		
۲.	۲	affiliative and positional		
	1	movements (Nasties)		
	1	24. Seed germination		

۲ ۱	٢	and latency				
۲۲	٢	25. Exam				
۲۳						
	٢					
۲٤						
70	٢					
	۲					
. Col	irse Eva	aluation				
Tho grado i	e dietrib	uted out of 100 accord	ling to	the tacks assign	ad to the stu	idont such as
activities, a 5% second effort 40% annua	ssignme semeste ll effort +	s: [Theoretical 27% (1 nts, attendance, repor r + 3% activities, assig	ts, etc.] gnmen 0%)] + [Practical 13	% (5% first	semester +
48. Lea	rning ar	nd Teaching Resour	ces			
Required te	xtbooks (curricular books, if any	')			
Main references (sources)			Physiology. Qat	ar University. l Qader, Dr. Fa vqi, Dr. Abbas tib (1982), Pla	nt Physiology,	
Recommen	ded book	s and references (scie	entific	Subhi Darhab. Pla		
journals, reports) Electronic References, Websites			(2015). Plant ph Ed. 6). Sinauer A Lambers, H., Cha Plant physiologi New York: Sprin Lazar, T. (2003). physiology. 3rd o Bhatla, S. C., & Lal development and Vince Ördög (201 Agrármérnöki M TÁMOP-4.1.2-0	Plants, Suzann ation Center. P ision by Profes nid Idris. ochemistry and E., Møller, I. M ysiology and c ssociates Incom pin, F. S., & Pe cal ecology (V ger. . Taiz, L. and edn. , M. A. (2023). d metabolism. 1). Plant physi Sc szak tanany	e Mubarak Preparation and ssor Dr. d Physiology. A., & Murphy, A. development (No. rporated. ons, T. L. (2008). Vol. 2, pp. 11-99). Zeiger, E. Plant Plant physiology, Springer Nature. ology. Az vagfejlesztése	
Electronic F	Reference	s, Websites		Yes		

49. Course Name:					
Microbiology					
50. Course Code:					
Bio 401					
51. Semester / Year:					
202:-2020					
52. Description Preparation Date	:				
202٤-202°					
53.Available Attendance Forms					
: Daily attendance					
54.Number of Credit Hours (Total) / Num	mber of Units (Total) :				
Yhours (theoretical) + 2 hours (practical) / 6 units					
	e (mention all, if more than one				
name)					
Name: Lecturer Dr. Fouad Qasim Ju	bair Al-Zayadi				
Email: <u>fouad.qasim@mu.edu.iq</u>					
56. Course Objectives					
Course Objectives	Give a complete idea of living organisms that cannot be seen with the naked eye (bacteria, fungi, viruses, algae, protozoa)				
57. Teaching and Learning Strateg	jies				
Strategy1- Lecture, use of the blackbox 2- Demonstration (using grap using a data projector) 3- Interactive discussion 4- Self-education	ard and presentation hs, pictures and educational films				

58. Cour	se Struc	ture			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	4	knowledge	Introduction of Microbiology	-Lecture, use of the blackboard and	Theoretical,
				presentation	practical/oral and written examinations
				-Demonstration	(daily, monthly and
				(using graphs, pictures	midterm exam) and
				and educational films using a data projector)	scientific reports
				-Interactive discussion	
				-Self-education	
				- Open educational	
				classes using the Classroom platform	
2	4	knowledge	Important of microbiology	====	====
3	4	knowledge	Evolution of microbiology	====	====
4	4	knowledge	Classification of microbiology	====	====
5	4	knowledge	Nomenclature of microbiology	====	====
6	4	knowledge	Characteristics of bacteria -	====	====
			their locations - shapes of		
			bacteria		
7	4	knowledge	Anatomy of bacteria - cell wall	====	====
8	4	knowledge	Some components of Gram-	====	====
			negative bacteria that lie		
•	-		outside the peptidoglycan		
9	4	knowledge	Cytoplasmic	====	====
			membrane		
10	4	knowledge	Nutrition of microorganisms	====	====
11	4	knowledge	Organic growth factors	====	====
12	4	knowledge	Microorganism growth - cell division	====	====
13	4	knowledge	Bacterial growth curves and	====	====
			stages		
14	4	knowledge	Direct and indirect bacterial	====	====
15		knowladga	counting	====	
16	4	knowledge knowledge	Stages of bacterial growth	====	====
		-	Microbiology physiology Microbiology control		
17 18	4	knowledge knowledge	Antibiotics	====	====
10	4	Kilowieuge	Antibiotics		
19	4	knowledge	Microbial genetics	====	====
20	4	knowledge	Genetic exchange	====	====
			mechanism		
21	4	knowledge	Pathogenic microorganisms	====	====
22	4	knowledge	Pathogenic bacteria 1	====	====
23	4	knowledge	Pathogenic bacteria 2	====	====
24	4	knowledge	Pathogenic bacteria 3	====	====
25	4	knowledge	Viruses	====	====
26	4	knowledge	Properties of viruses	====	====
27	4	knowledge	Microorganisms found in soil	====	====

28	4	knowledge	Microorganisms of water and	====	====
			wastewater		
29	4	knowledge	Revitalization of industrial	====	====
			foods and dairy products		
30	4	knowledge	Microorganisms found in soil	====	====

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily preparation and daily tests + 5 marks for the first practical exam + 5 marks for the second monthly practical exam)

60 marks (20 marks final practical exam + 40 marks final theoretical exam)

60. Learning and Teaching Resources

Required textbooks (curricular books, if any)	not available
Main references (sources)	Diagnostic Microbiology .Forbes, Betty A Sahm, Daniel F, 2007 Jawetz Melnick and Adelbergs Medical Microbiology 27 E, Carroll, Karen C Butel, Janet Morse, Stephen ,2015
Electronic References, Websites	Websites available on Google Chrome

1. Course maine.	1.	Course	Name:
------------------	----	--------	-------

Measurement and evaluation / fourth stage

2. Course Code:

CREQ 401

3. Semester / Year:

2024-2020

4. Description Preparation Date:

7.7077/1/

5. Available Attendance Forms:

My presence

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

2 hours / number of units 4

7. Course administrator's name (mention all, if more than one name)

Name: Duaa Raheem Katun

Email: duaa.raheem@mu.edu.iq

8. Course Objectives

Course Objectives	• Identify the concept of measurement and
	evaluation, types and applications.
	 Spreading the culture of developing
	measurement and evaluation systems for
	students.
	• Raising awareness of the importance of
	assessment in all aspects of the student's
	personality (cognitive,
	Skillful, emotional)
	 Preparing questionnaires and opinion poll

0. Т			and the co • Training evaluation • Knowing as well as Test and fe	dent's evaluation urse And the exa students to perfo s. how to prepare a how to measure prmulate it appro	am. orm course a test for studen its importance
9. Teac Strategy	ning an	d Learning Strateg	lies		
10. Course	Struct	educational-g • PowerPoint • Discuss • Cooperative	the blackboard, an guided writing to o presentation sion		
Week	Hours		Unit or subject	Learning	Evaluation
WEEK	nouis	Required Learning	name	method	method
		Outcomes			motrou
The first week	2		Defining concepts, evaluating and testing And the relationship between them	PowerPoint presentat And discuss	Oral question And daily exams
second week	2		Types of evaluation - Curriculum evaluation	PowerPoint presentation And discuss	Oral question And daily exams
the third weel	2		Preparing the achievement test	PowerPoint presentation And discuss	Oral question And daily exams
fourth week	2		Achievement tests and their types	PowerPoint presentation And discus	Oral question And daily exams
The fifth week	2		Oral tests and their areas of use	PowerPoint presentation And discuss	Oral question And daily exams
the sixth weel	2		Advantages and disadvantages of oral tests	PowerPoint presentation And discuss	Oral question And daily exams
Seventh week	2		Performance tests (rules for drafting - types) Written tests	PowerPoint presentation And discuss	Oral question And daily exams
The eighth we	2		written tests	PowerPoint	Oral question

			presentation	And daily exams
			And discuss	
		Tests based on giving the		
Week nine	2	student an answer - their	D D .	
week nine	Z	types	PowerPoint	Oral question
		New selectuled energy	presentation	And daily exams
		Non-scheduled essay tests – examples	And discuss	
The tenth wee	2	tests – examples	PowerPoint	Oral question
			presentation	And daily exams
			And discuss	And daily exams
Week eleven	2	Choice-based tests - their	DesuerDeint	
WEEK EIEVEII	2	types	PowerPoint presentation	Oral question
		True-false test - multiple	And discuss	And daily exams
		choice – examples		5
		choice examples	PowerPoint	Oral marking
The twelfth w	2	Conformity testing –	presentation	Oral question And daily exams
		examples	And discuss	And daily exams
			PowerPoint	
The	2		presentation	Oral question
th			And discuss	And daily exams
irt		The law of correcting		This dury cruins
ee		objective tests from the		
		effect of guesswork		
nt			PowerPoint	Oral question
h	2	Steps of the achievement	presentation	And daily exams
w		test - conditions	And discuss	, , , , , , , , , , , , , , , , , , , ,
ee		Good testing and its		
k	2	specifications	PowerPoint	
			presentation	Oral question
		Application	And discuss	And daily exams
		Application		-
The fourteent				
	2			
week	2	Application	PowerPoint	Oral question
			presentation	And daily exams
			And discuss	
The fifteenth				
week	2	Application	PowerPoint	
		rippireation	presentation	Oral question
			And discuss	And daily exams
	2		PowerPoint	
Circles and	2	Application	presentation	
Sixteenth wee			And discuss	Oral question
				And daily exams
		Application	PowerPoint	
	2	Аррисации	presentation	Oral question
Seventeenth			And discuss	And daily exams
week			ina uiscuss	
	2			
	-	Application	PowerPoint	
			presentation	Oral question
P : 1, ., .,			And discuss	And daily exams
Eighteenth we				
	2	Application	PowerPoint	
		Аррисанон	presentation	
Week ninetee			And discuss	Oral question
				And daily exams
	2		PowerPoint	
	-	Application	presentation	Oral question
The			And discuss	And daily exams
The twentieth				
week				
	2		PowerPoint	Oral question
	1		presentation	And daily exams
			And discuss	

Twenty-first				
week		Educational objectives - Bloom's taxonomy of objectives		
Гwenty-secon	2	Table of specifications - its contents	PowerPoint presentation	Oral question And daily exams
week		Standardized achievement	And discuss	
		tests - types of achievement tests		
Twenty-third week	2	Building achievement tests	PowerPoint presentation	Oral question And daily exams
		Statistical analysis of paragraphs - ease and	And discuss	Oral question
	2	difficulty of paragraphs	PowerPoint presentation And discuss	And daily exams
	2	Discrimination-effectiveness of false alternatives	PowerPoint	Oral question
Twenty-fourtl week		Honesty and its types - how	presentation And discuss	And daily exams
	2	to calculate each type	PowerPoint presentation	Oral question
			And discuss	And daily exams
Twenty-fifth week	2	Reliability - methods of calculating it - its objective types - comprehensiveness	PowerPoint	Oral question
			presentation And discuss	And daily exams
Twenty-sixth week	2		PowerPoint presentation	PowerPoint
WEEK			And discuss	presentation And discuss
Twenty- seven				
th week				
Twenty-eightl				
week				
Twenty-ninth week				
WEEK				
the third weel				

11. Cou	rse Eval	uation				
		ws: 25 marks for mo exams for the second s				ester. 25 marks
		I Teaching Resou				
Required tex	tbooks (c	urricular books, if an	у)		trends in science	
Main references (sources)			Principles of measurement and evaluation Education evaluation ducational measurement and evaluation			
Recommended books and references (scientific			Basics of edu		ment and evaluati	
journals, rep	orts)			education	ent una cvalu	ation in univer
Electronic References, Websites			Borsippa Libra https://cdn.fbs Al Noor Library	bx.com		

application Viewing and : name Cours	se .71
CREQ 402 : course SymbolTh	re .٦٢
.and .It is 2024/2025. an	nd .٦٣
۲.۲۰/۱/۱۹ :and an	id .٦٤
and . Available attendance option	
	. and
Total number of credit hours 3 hours weekly / Total number of study hou	
	/ 4 units
Name of the course coordinator(If more than one name is	s .٦٧
· ·	ntioned
me:Mr. Nebras Musafir	Shakir
<u>nibrasmosafr@mu. edu.</u>	/ Email
. Goalsar	nd .٦٨
. and . study materialand	Objectives of the
. and r the application stage a	and preparing
. and. and m psychologically and ed	
	.this stage
. ar	nd .٦٩
. ar	ıd
ching strategies is used in the A large and diverse set of learning an	
der for students to become observation and application material	
modern curriculum familiar with it and with what pertains to th	

				. a	nd	.۷۰
Evaluati on	learning	Method	and	. and	. and	The
and .Questi ons and .Evalua tion		Metho d The dialog ue	. and	Knowledge of the te practical education, importance, and its foundations.	Th re e	`
	Appl	ication	. and practically in every stage Students	and.		۱d۲
	n d	ialogue nethod the cussion . and	The importance of this stage for the practicing student, its foundations, and its .stages	and.		٣
	ppli	cation	Types of study plans and. and The study unit -Unit elements -Importance of the daily plan	The concept of planning and its importance and.		is ٤
		. and	and Its classifications	Behavioral		is °
		ethod ecture	and .Water	GoalsBehavioral		is ٦
			and .and. Moral values and principles - The re of the educator in Confronting the challenges of the 22 century Examples of professional ethics	and.		is [∨]
			Objectives of classroo questions- Agarand Principles of formulation - Skills - Teachin guidelinesand.	and.		is ^
			Its concept- Its importance - it dimensions - its patterns- Elements - factors that contribu to the emergence and .Managementclassroom and.	The administratior nd		is ٩

	1						
		Why does he teach - What o teach - How does he tea		۱.			
		Practical lessor		11			
		and.	and.	١٢			
		Practical lessor	ns Microteaching	hirt			
		Dreatical locan	and	en אין			
		Practical lesson	ns and. and.	10			
		and.	allu.	17			
				1			
				1			
				19			
				۲.			
				71			
				77			
				77			
				۲٤			
				٢٥			
				۲٦			
				۲۷			
				۲۸			
				۲۹			
				۳.			
	Course evaluation . Y						
	according to the tasks assigned to the student, such as daily Distribution of the score out of 100 daily oral exams, monthly exams, written exams, and reports, etc ,preparation .and .The first10 points .Central exam — 10 degrees and .Weekly5 isScores and .10 is .and . and is ۳۰ .application stage worth 20 points Scientific supervisor - Field visit in the the application phase, a student is School Management Evaluation — 10 points (after (handed a evaluation form)Management						
			. an	d .vr			
		. and	(and .(The methodology	, if found			
		. and		. and			
hmoud	Curricula ar	nd Teaching Methods / Mohamed	Books and referencesThe su	pportand			
		AI-Heela					
		. and		. and			
L							

1. Course Name:

Psychological counseling

2. Course Code:

This course description provides a concise summary of the main characteristics of t course, the course outcomes, and the learning outcomes expected of the stude demonstrating whether he has benefited from the available learning opportunities.

3. Semester / Year:

2024-2025

4. Description Preparation Date:

2024-2025

5. Available Attendance Forms

: Daily attendance

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

2 hours per week

7. Course administrator's name (mention all, if more than one name) Name: Dabas Atheeb Abdullah

8. Course Objectives

Course Objectives 1- Introducing students to the concept of guidance, its origin, development and methods

2- Introducing students to the educational counselor and methods of preparing him

3- Introducing students to how to achieve personal harmony with ones and satisfaction with it and satisfy internal, primary and innate motiv and needs.

4- Helping students adapt to themselves and their environment and to

 choose the appropriate academic specialization for them

 5- Developing positive trends and tendencies among students undertake the profession of educational counselor

 9. Teaching and Learning Strategies

 Strategy
 1

 . Enabling students to know the principles of counselling, guidance at mental health

 A2. Preparing students psychologically and educationally for the teaching profession

 A3. Preventing students from getting into problems and helping the make their own decisions

10. Cours	e Structure			
Week				
1	The first week	An introduction to the study of psychological counselling	The first chapter: An introduction to the study of psychological counselling	
2		What is psychology	What is psychology	
3		Fields of psychology and its branches	Fields of psychology and its branches	
4		A brief overview of the development of psychological counselling	A brief overview of the development of psychological counselling	
5		The importance of psychological guidance	The importance of psychological guidance	
6		Objectives of psychological counseling and educational guidance	Objectives of psychological counseling and educational guidance	
7		Justifications for psychological counselling	Justifications for psychological counselling	
8		A historical overview of the student psychological counselor	A historical overview of the student psychological counselor	
9		Guide preparation and training	Guide preparation and training	
10		Counselor ethics	Counselor ethics	
11		Student advisor tasks	Student advisor	

		1	
		tasks	
12	altiqniaat alarshadia	altiqniaat alarshadia	
13	daewat wadiha	daewat wadiha	
14	. daewat ghayr mubashira	. daewat ghayr mubashira	
15	Individual counseling	Individual counseling	
16	Group counseling	Group counseling	
17	Guidance through play for children	Guidance through play for children	
18	. Behavioral counseling	. Behavioral counseling	
19	Chapter Three: The relationship of psychological counseling to other science	Chapter Three: The relationship of psychological counseling to other science	
20	Scientific foundations of psychological and educational counseling	Scientific foundations of psychological and educational counseling	
21	: Psychological counseling theories	: Psychological counseling theories	
22	Self theory	Self theory	
23	The theory of rational guidance	The theory of rational guidance	
24	Behavioral theory psychoanalytic theory	Behavioral theory psychoanalytic theory	
25	Chapter Five: Methods of collecting information	Chapter Five: Methods of collecting information	
26	. Tests and standards	. Tests and standards	
27	The counseling interview	The counseling interview	
28	Educational guidance in school	Educational guidance in school	
29	Educational guidance in school	Educational guidance in school	
30	The guiding teacher course, the importance of its preparation	The guiding teacher course, the importance of its preparation	

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

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 5 marks for daily

preparation and daily tests) 60 marks (40 marks final theoretical exam) 12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports)	Make a greater period for practical application in schools 2. Informing students about the latest developments in the field of counseling and mental health 3.Exchanging experiences between faculty members. 4. Keeping pace with developments in the nature of work in the field of psychological counseling and guidance				
Electronic References, Websites	Academy of Psychology / Wikipedia / The A Encyclopedia of Counseling and Psychotherapy / Websit the Psychological Counseling Center at the Institute Educational Studies, Cairo University / Arab Psycholog Sciences Network / Center for Educational Stu Psychological Research / Center for Psychological Research and Studies/				