

Ministry of Higher Education and Scientific Research Scientific Supervision and Scientific Evaluation Apparatus Directorate of Quality Assurance and Academic Accreditation Accreditation Department

Academic Program and Course Description Guide

2024

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.

Program Mission: 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.

<u>Curriculum Structure</u>: 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.

Teaching and learning strategies: 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-Muthanna Faculty/Institute: College of Education for Pure Science 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: 3/3/2024 File Completion Date: 4/3/2024

Signature:

Head of Department Name: Assist.Prof.Dr. Hana Khadum Date: 4 / 3/2024 Signature: Scientific Associate Name: Assist.Prof.Dr. Hajem Ati Daham Date: 4 /2/2024

The file is checked by: Assist.Prof.Dr Yassir Dakheel Kremsh Al-Asadiy Department of Quality Assurance and University Performance Director of the Quality Assurance and University Performance Department:

Date: 11 /3 /2024 Signature: Approval of the Dean rof. Dr. Jawad Kadhum Muraih Date: || / 3/2024

1. Program Vision

The Department of Biology aspires to gain global recognition in the fields of scientific research and teaching by achieving academic quality, as well as local recognition in the field of supplying the labor market with highly qualified scientific personnel

2. Program Mission

Raising the efficiency of biological sciences in society Effectively supporting various scientific specializations with high-level graduates Contributing to the scientific renaissance and developing ways to build competencies Biologist has the highest level of teaching and training to contribute to raising the level Biological thought among trainees.

3. **Program Objectives**

1. Providing students with the knowledge and learning of modern principles and methods in the study of biology.

2. Introducing students to the importance of biology.

3. Graduating an elite group of students who have the ability to continue graduate studies to support higher education in the future.

4. **Program Accreditation**

Does the program have program accreditation? And from which agency? Yes, the program has program accreditation from the National Council for Accreditation of Programs of Colleges of the Educational Group.

5. Other external influences

Is there a sponsor for the program?

Ministry of Higher Education and Scientific Research, Scientific Supervision and Scientific Evaluation Apparatus, Directorate of Quality Assurance and Academic Accreditation, Accreditation Department.

6. Program Structu	re			
Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	26	15	10%	
College Requirements	40	22	20%	

Department Requirements	116	64	70%	
Summer Training	-	-		
Other				

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

7.Program Description

		st Year	_	
Course Name	Course	Credit I		Units
	Code	Theoretical	Practical	
General Biology	Bio 100	2	2	6
Plant Anatomy	Bio 101	2	2	6
Cell Biology	Bio 102	2	2	6
General Chemistry	Bio 103	1	2	4
Geology	Bio 104	1	-	2
Educational Psychology	CREQ101	2	=	4
Fundamentals of Education	CREQ100	2	-	4
Arabic Language	UREQ101	1	-	2
English Language I	MUR101	1	-	2
Computer I	UREQ103	-	2	2
Democracy, Human Rights, and the Crimes of the Baath Party	UREQ102	1	-	2
Biosafety and Security	Bio 100	1	-	2
Total		16	10	42
	Seco	nd Year		
Correct Norma	Course	T T •4		
Course Name	Code	Theoretical	Practical	Units
Invertebrates	Bio 200	2	2	6
Plant Taxonomy	Bio 201	2	2	6
Histology	Bio 202	2	2	6
Embryology	Bio 203	2	2	6
Biochemistry	Bio 204	2	2	6
Computer I	UREQ 201	-	2	2
Developmental Psychology	CREQ 201	2	-	4
Educational administration and Secondary Education	CREQ 202	2	-	4
Biostatistics	Math 205	1	2	4
English Language II	MUR201	1	=	2
Total		16	12	46
	Thi	rd year		
Course Norres	Course	Number o	f Hours	Units
Course Name	Code	Theoretical	Practical	
Ecology and Pollution	Bio 300	2	2	6

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	D: 001	•	•	6
Entomology	Bio 301	2	2	6
Comparative Anatomy	Bio303	2	2	6
Algae	Bio 304	2	2	6
Genetics	Bio 305	2	2	6
Mycology	Bio302	2	2	6
Curriculums and Methods of Teaching	CREQ300	2	-	4
Fundamentals of Scientific Research	CREQ301	2	-	4
Counseling & Metal Health	CREQ302	2	-	4
English Language III	MUR301	1	-	2
Total		19	12	46
	For	th year		
Course Name	Course	Number o	Units	
Course Name	Code	Theoretical	Practical	
Parasitology	Bio 400	2	2	6
Animal Physiology	Bio 402	2	2	6
Plant Physiology	Bio 403	2	2	6
Microbiology	Bio 401	2	2	6
Immunology	Bio 404	1	2	4
Optional (Biotechnology)	Bio406	2	-	4
Research Project	Bio 405	-	2	2
Measurement and evaluation	CREQ 401	2	-	4
Practical education	CREQ 402	1	2	4
English Language IV	MUR401	1	-	2
Ethics Professional	MUR402	1	-	2
		16	14	46

8. Expected learning outcomes of the progr	am
Knowledge	
A1- Enabling the student to gain an understanding	
of biology.	
A2- Preparing qualified teachers to teach in	
educational institutions.	
A3- Preparing a high-quality biologist teacher.	
Skills	
B1- That the student acquires teaching skills.	1. The correct scientific thinking method.
B2- That the student acquires skills in thinking	2. Discussion method.
and analysis methods.	3. Daily, monthly and annual tests.
B3- The student should be able to link information	
and experiences.	
C1- The method of discussion and dialogue	1. Through daily and monthly tests.
between the student and the professor.	2. Discussions.
C2- Conclusion.	3. Practical and applied tests.

	4. By reviewing the experiences of different universities.
Ethics	
D1- Utilizing the acquired information.	
D2- Personal development through reading and	
updating knowledge.	
D3- Engaging in the teaching profession.	
D4- Participation in seminars, conferences and	
workshops Specialized.	

9. Teaching and Learning Strategies

Theoretical and practical teaching of biology sciences, as well as graduation research and others.

10. Evaluation methods

- 1. Theoretical and practical tests.
- 2. Discussions.
- 3. Final exams.

11. Faculty

Faculty Members					
Academic Rank	Specia	lization	Special Require ments/S kills (if applicab le)		er of the ng staff
	General	Special		Staff	Lectur er
Prof. Dr. Jawad Kadhum Muraih	Chemistry	Biochemistry		~	
Asisst.prof.Hana Kadum shanan	Biology	Biotechnology		~	
Prof. Dr. Karima A. Al- Salihi	Veterinary	Pathology		~	
Kadhem Mohammed Sabae	Biology	Animal physiology		~	
Assist.prof.dr. yassir dakheel kremsh Alasadiy	Biology/zoolog y	parasitology		~	
Asisst.prof Arshed Naji	Agricultural Engineering	Plant Genetic		~	
Asisst.prof.Hasan Raheem Khudhur	Biology	Medical Microbiology		~	
Asisst.prof Nadia Hussein Ali	geography	Medical geography		~	
Dr.Fouad Qasim Jubair Al- Zayadi	Medical Microbiology	Immunology		✓	

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Dr.Mohamed Baqer Hussine	Biology	Taxonomist	✓	
Eqbal Awadh Gatea	biology	animal physiology	✓	
Israa Abd Alhasan Hamdan	Chemistry	organic chemistry	✓	
Duaa Hmza Hamad	biology	animal physiology	✓	
Hadi Abd Alameer Khadem	Biology	Animal physiology	✓	
zainab muhsen hassan	Protection of plants	plant diseases	✓	
Nibras musafir shakir	History	Social Studies Teaching Methods	√	
Kawakib Awadh atshan	Botany	Plant protection	✓	
Nawal jumaah shanshool	livestock production	Reproductive physiology	✓	
Duaa Raheem Katun	Biology	Faculty of basic Education Deportment of science	~	
Haneen majed saheb	Chemistry	Chemistry	✓	
Noor-Alhuda Mohamed Jrew	Arabic	Arabic	×	
Baidaa hussein jasim	Biology	Microbiology	✓	
Mustafa Abd Bashi Al- Mayal	Biotechnology	Genetics	×	
Osama Ghazi Abbas	Agricultural Engineering	Plant Pathology	✓	
Asmaa Sahib Abdul Abbas Al-hasnaw	Plant production	Crops technology	×	
Dr. Ali Jawad Obada	Arabic	Arabic		✓
Dr. Munthir Shaker	English	English		✓
Dr. Hasan Jumaah Mrayeh	Mechanical Engineering	Refractories		✓
Hussain Ali Hadhood	Political Science	Local governments		✓
Noor-Alhuda Mohamed Jrew	Arabic	Arabic		✓

Professional Development

Mentoring new faculty members

New faculty members were directed to complete a teaching suitability test and entered training courses and workshops to develop their skills in teaching and scientific research.

Professional development of faculty members

Introducing faculty members into training courses and workshops to develop their skills in teaching and scientific research.

12. Acceptance Criterion

1- Central admission.

2- Scientific interview.

3- The graduate of the preparatory stage is accepted exclusively in the scientific stream (biology - applied).

4- Medical examination.

13. The most important sources of information about the program

1- Sources approved by the university (sectoral committee).

2- External sources and various books.

3- The Internet.

14. Program Development Plan

1- Many duties that require external information.

2- Many practical applications.

			Pro	ogram	Skills	Program Skills Outline	ЭС								
							Requi	ired p	rogra	m Lei	arning	Required program Learning outcomes	sət		
Year/Le	Course	Course Code	Basic or		Knowledge	ledge			Skills	S			Ethics	ics	
vel	Name	course cours	optional	A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
	General Biology	Bio 100	Basic	>	~	>		>	>	>		>	>	>	>
	Plant Anatomy	Bio 101	Basic	>	>	>		>	>	>		>	>	>	>
	Cell Biology	Bio 102	Basic	>	>	>		>	>	>		>	>	>	>
<u>.</u>	General Chemistry	Bio 103	Basic	>	>	>		>	>	>		>	>	>	>
First	Geology	Bio 104	Basic	>	>	>		>	>	>		>	>	>	>
Year	Educational Psychology	CREQ101	Basic	>	>	>		>	>	>		>	>	>	>
	Fundamental s of Education	CREQ100	Basic	>	>	>		>	>	>		>	>	>	>
	Arabic Language	UREQ101	Basic	>	>	>		>	>	>		>	>	>	>
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UREQ103	UREQ102	Bio 100	Bio 200	Bio 201	Bio 202	Bio 203	Bio 204	UREQ 201	CREQ 201
Computer I	Democracy, Human Rights, and the Crimes of the Baath	Party Biosafety and Security	Invertebrates	Plant Taxonomy	Histology	Embryology	Biochemistry	Computer I	Development al Psvchologv
						Second	Year		

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	Basic	Basic	Basic	Basic	Basic	Basic	Basic	Basic	Basic
CREQ 202	Math 205	MUR201	Bio 300	Bio 301	Bio303	Bio 304	Bio 305	Bio302	CREQ300
Educational administratio n and Secondary Education	Biostatistics	English Language II	Ecology and Pollution	Entomology	Comparative Anatomy	Algae	Genetics	Mycology	Curriculums and Methods of Teaching
						Third	year		_

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	Basic	Basic	Basic	Basic	Basic	optional	optional	Basic
CREQ301	CREQ302	MUR301	Bio 400	Bio 402	Bio 403	Bio 401	Bio 404	Bio406
Fundamental s of Scientific Research	Counseling & Metal Health	English Language III	Parasitology	Animal Physiology	Plant Physiology	Microbiolog	Immunology	Optional (Biotechnolog y)
			Forth year					

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Basic	Basic	Basic		Basic
Bio 405	CREQ 401	CREQ 402	MUR401	MUR402
Research Project	Measurement and evaluation	Practical education	English Language IV	Ethics Professional

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:					
2023-2024					
4. Description Preparation Date:					
2023-2024					
5. Available Attendance Forms					
: Daily attendance					
6. Number of Credit Hours (Total) / Number of Units (Total):					
2 hours (theoretical) + 2 hours (practical) / 6 units					
7. Course administrator's name (mention all, if more than one name)					
Name: Assist. Pro.dr. yassir dakheel	•				
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 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	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	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports	

				- Open educational classes using the Classroom platform	
2	4	knowledge	Evolution of biology	====	====
3	4	knowledge	The importance of biology	====	====
4	4	knowledge	Branches of Biology	====	====
5	4	knowledge	Characteristics of life	====	====
		U U	Definition of qualities of life		
			The main method of		
			construction of living matter		
6	4	knowledge	Classification systems	====	====
7	4	knowledge	Classification of living ====		====
		U	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		====
	•	Knowledge	growth in plants		
11	4	knowledge	Reproduction and growth in	====	====
		U	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	knowledge	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		====
27			migration		

26	4	knowledge	Hierarchical Dominance in Animal Groups	====	====
27	4	knowledge	Ecology Some concepts of ecology	====	====
28	4	knowledge	Biological spectrum - ecosystem (Biogeochemical 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 + 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)

12. Learning and Teaching Resources						
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:				
Histology				
2. Course Code:				
Bio 202				
3. Semester / Year:				
2023-2024				
4. Description Preparation Date:				
2023-2024				
5. Available Attendance Forms				
: Daily attendance				
6. Number of Credit Hours (Total) / Number of Units (Total):				
2 hours (theoretical) / Number of Units 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 the organs of the living body's systems and their components, each tissue, its types and locations in the human body, and knowing the function of each type of tissue			
9. Teaching and Learning Strategies				
Strategy 1- Lecture, use of the blackbo	ard and presentation			
	hs, pictures and educational films			
using a data projector)				
3- Interactive discussion				
4- Self-education				

10. Cou	rse Struc	ture			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	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	2	knowledge	classification of animal tissue	====	====

3	2	knowledge	Epithelial tissue, simple epithelial tissue	====	====
4	2	knowledge	stratified epithelial tissue	====	
5	2	knowledge	Glandular epithelial tissue	====	====
6	2	knowledge	Connective tissue , ==== components of connective tissue		====
7	2	knowledge	Proper connective tissue	====	====
8	2	knowledge	Bone	====	====
9	2	knowledge	Cartilage		====
10	2	knowledge	Blood	====	====
11	2	knowledge		====	====
12	2	knowledge	Muscle tissue	====	====
13	2	knowledge	Type of muscle tissue	====	====
14	2	knowledge	Skeletal muscle	====	====
15	2	knowledge	Nerves tissue	====	====
16	2	knowledge	Type of neuron	====	====
17	2	knowledge	Circulatory system		====
18	2	knowledge	Heart	====	====
19	2	knowledge	Respiratory system	====	====
20	2	knowledge	Lung , Trachea ,Bronchioles	====	====
21	2	knowledge	Digestive system	====	====
22	2	knowledge	Esophagus ,stomach, intestine	====	====
23	2	knowledge	Central nervous system	====	====
24	2	knowledge	Peripheral nervous system	====	====
25	2	knowledge		====	====

			Urinary system		
26	2	knowledge	Integment system (skin)		====
27	2	knowledge	Male reproductive system	====	====
28	2	knowledge	Female reproductive system	====	====
29	2	knowledge	Lymphatic system	====	====
30	2	knowledge	Spleen, Thymus, Tonsils	====	====

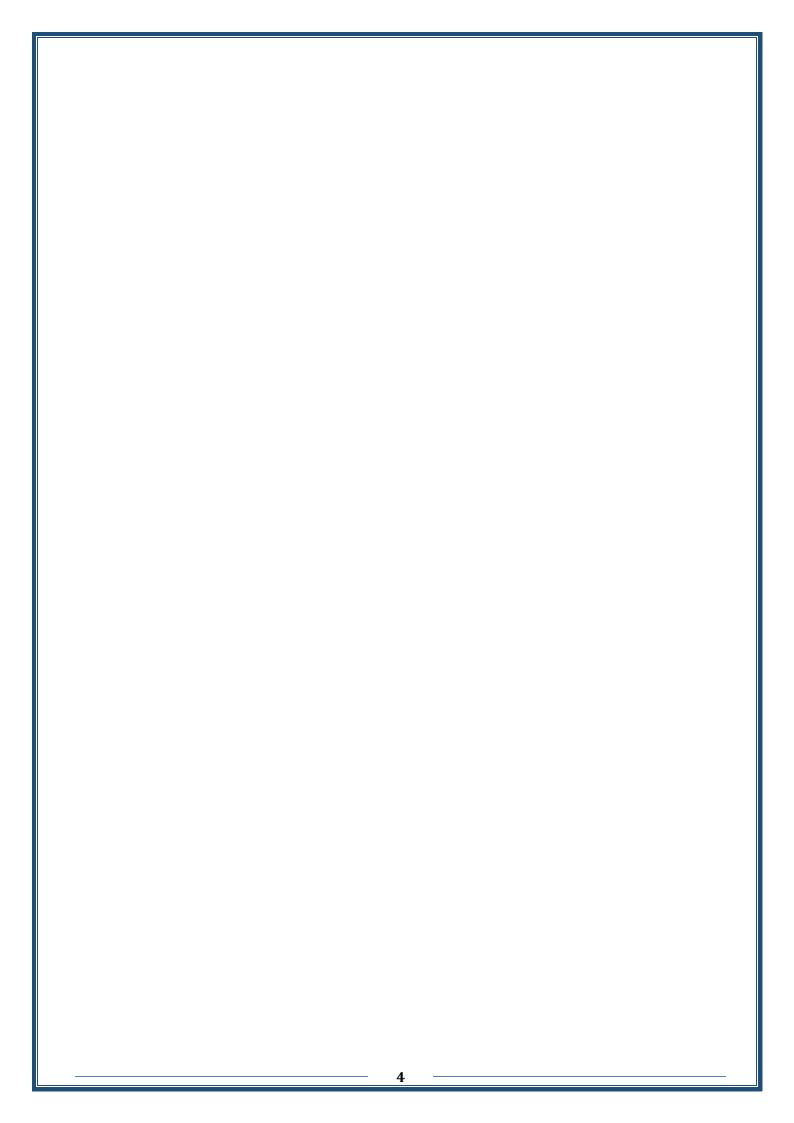
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

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



1. Course Name:			
Foundations of scientific research			
2. Course Code:			
CREQ301			
3. Semester / Year:			
2023-2024			
4. Description Preparation Date:			
2023-2024			
5. Available Attendance Forms			
: Daily attendance			
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):		
2 hours (theoretical)			
7. Course administrator's name (me	ntion all, if more than one name)		
Name: Assist. Pro.dr. Nadia Husseir	ı Ali		
Email: <u>nadiasaoudi@mu.edu.iq</u>			
8. Course Objectives			
Course Objectives Introducing the student to studying meaning of scientific research, its types a goals, and in-depth studying resea methods, the historical, experimental a descriptive approach.			
9. Teaching and Learning Strategies			
 trategy 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. Cou	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	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports

			1	Classroom platform	
2	2	knowledge	The difference between science and knowledge, scientific	====	====
3	2	knowledge	thinking and its basics Science and its goals	====	====
4	2	knowledge	Scientific research and its	====	====
		knowledge	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 its characteristics	====	====
7	2	knowledge	How to formulate the problem	====	====
8	2	knowledge	Assumptions	====	====
9	2	knowledge	Research plan and framework	====	====
10	2	knowledge	Scientific research methods and 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 research title, formulating the research title		
14	2	knowledge	Writing down the main paragraphs of the research, the introduction, and ways to refer to references, writing down the materials paragraph and working methods		
15	2	knowledge	Collect sources or references	====	====
16	2	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	Samples	====	
24	2	knowledge	Types of samples	====	====
25	2	knowledge	Sample selection methods	====	====
26	2	knowledge	Sample selection conditions	====	====
27	2	knowledge	How to write reports and their types	====	====

28	2	knowledge	Meaning of quotation and notation		====
29	2	knowledge	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

v v	
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

	-			
1. Course Name:				
Educational administration and secondary education				
2. Course Code:				
CREQ 202				
3. Semester / Year:				
2023-2024				
4. Description Preparation Date:				
2023-2024				
5. Available Attendance Forms				
: Daily attendance				
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):			
2 hours (theoretical)				
7. Course administrator's name (me	ntion all, if more than one name)			
Name: Assist. Pro.dr. Nadia Hussein	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				
 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	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 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	====	====
5	-	KIIOWIEuge	administration and school		
			administration		
4	2	knowledge	Leadership and management	====	====
			General functions and		
5	2	knowledge		====	====
~			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	====	====
			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	====	====
		C C	adopting the administrative		
			style		
15	2	knowledge	The concept of classroom	====	====
			management		
16	2	knowledge	The concept of educational	====	====
	_	into the uge	supervision and its tasks		
			And his goals		
17	2	knowledge	Methods of educational	====	====
		U	supervision		
18	2	knowledge	Motivation concept	====	====
10	2	knowledge			
19	2	knowledge	The importance of incentives	====	====
			the importance of incentives		
20	2	knowledge		====	====
20	2	Kilowieuge	Types of incentives	=	
24		1	The second of the		
21	2	knowledge	The concept of performance	====	====
			evaluation		
22	2	knowledge	The importance of	====	====
			performance evaluation		
23	2	knowledge	Performance evaluation	====	====
		1 1	objectives		
24	2	knowledge	Performance evaluation	====	====
			elements		
25	2	knowledge	Basic rules for performance	====	====
			evaluation		
26	2	knowledge	Benefits of performance	====	====
			evaluation		
27	2	knowledge	Developing the performance	====	====
			evaluation process		
28	2	knowledge	Stages of performance	====	====
	1		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			
1. Course Name:				
Parasitology				
2. Course Code:				
Bio 400				
3. Semester / Year:				
2023-2024				
4. Description Preparation Date:				
2023-2024				
5. Available Attendance Forms				
: Daily attendance				
6. Number of Credit Hours (Total) / N	fumber of Units (Total):			
2 hours (theoretical) + 2 hours (pra	ctical) / 6 units			
7. Course administrator's name (m				
Name: Assist. Pro.dr. yassir dakhe	-			
Email: <u>dr.yassiralasadiy@mu.edu.</u>	iq			
8. Course Objectives				
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			
9. Teaching and Learning Strategies				
Strategy 1- Lecture, use of the black	oard and presentation			
	aphs, 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	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 - The benefits that parasites	====	====

			gain from their hosts - The		
			harms that parasites gain from their hosts		
3	4	knowledge	types of parasitism, types of parasites and hosts	====	====
4	4	knowledge			====
			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	knowlodgo	Phylum: protozoa ,	====	====
0	-	knowledge	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	====	====
,	-	KIIOWIEuge	Entamoeba histolytica		
			Entamoeba coli		
8	4	knowledge	Endolimax nana	====	====
0	-	Knowledge	Iodomoeba 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		
10		1 1. 1	1- L.donovani		
12	4	knowledge	Trypanosoma gambianse	====	====
			T. cruzi		
			Class: sporozoa Plasmodium vivax ,P. ovale ,P.		
			malarae, P. falciparum)		
13	4	knowledge	Topxoplasma gondii	====	====
13	4	knowledge	Class: Ciliophora	====	====
14	-	KIIOwieuge	Blantidium coli		
		1	1	1	1
			All parasites mentioned above		
			All parasites mentioned above are studied in the form and		

			cycle, pathology, epidemiology,		
			diagnosis, prevention		
15	4	knowledge	Phylum: Platyhelminthes	====	====
			Characteristics of the Division		
			of flatworms, body wall		
			installation, gastrointestinal		
			tract, urinary system, nervous		
			system, reproductive system,		
			life cycle		
16	4	knowledge	Class;Trematoda	====	====
	-	into througe	((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	====	====
			Schistosomatidae		
			Scistosoma haematobium		
			S.mansoni		
			S. Jpanicum		
18	4	knowledge		====	====
			Lung fluckes		
			Paragonimus westermai		
19	4	knowledge	Class: Cestoda	====	====
19	-	Kilowiedge			
			Characteristics of the class		
			,body wall installation, body		
			system, life cycle		
20	4	knowledge	Pseudophyllidae Order:	====	====
			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		
			ulugilosis, prevention		
21	4	knowledge	Phyulum : Nematoda	====	====
<u> </u>	-	KIIOWICUge	1- Trichinella spiralis		
			-		
22		1 1 1	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	====	====
23					

			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	ss: Arachnida ==== === :Acarina	
30	4	knowledge	B-Mites === == 1- Order: Scorpionoidea 2- 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 (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)

12. 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	references	Parasitology –Ismail AL-Hadithi and A.H.Awad – 2015
(scientific journals,	reports.)		
Electronic References, Websites				Websites available on Google Chrome (CDC)

1. Course Name:					
Professional ethics					
2. Course Code:					
MVRU402					
3. Semester / Year:					
2023-2024					
4. Description Preparation Date:					
2023-2024					
5. Available Attendance Forms					
: Daily attendance					
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):				
4 hours (theoretical)	ntion all it more than one name)				
7. Course administrator's name (me Name: assistant teacher hussain al					
Email: hussain.hadhood @mu.ed					
8. Course Objectives					
-	Identifying ethics in terms of concept				
Course Objectives	origin and schools				
	Which dealt with this concept, the sources				
	of ethics, and theories of moral education				
	Ethics of the teaching profession in terms				
	of the concept of the profession and its				
	importance				
	How to consolidate and develop the				
	teaching profession among students				
9. Teaching and Learning Strategies					
Strategy 1- Lecture, use of the blackbo	-				
	ohs, pictures and educational films				
using a data projector)					
3- Interactive discussion					
4- Self-education					

10. Co	ourse Struct	ture			
Week	Hour s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	knowledge	The concept of ethics	-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	/oral and written examinations
2	4	knowledge	Definition of ethics	1	
3	4	knowledge	Conditions for congenital action	====	====
4	4	knowledge	The origins and development of ethics	====	
5	4	knowledge	The stages that the science of ethics passed through	====	
6	4	knowledge	Formation of ethics	====	====
7	4	knowledge	Sources of ethics	====	====
8	4	knowledge			====
9	4	knowledge	Ethics of the teaching profession	====	====
10	4	knowledge	The importance of ethics in the education profession	====	
11	4	knowledge	Sources of professional ethics	====	====

possessed by the teaching professionpossessed by the teaching profession134knowledgeResponsibilities of the teaching profession====144knowledgeTypes of responsibilities====154knowledgeDeterminants of the========	
134knowledgeResponsibilities of the teaching profession========144knowledgeTypes of responsibilities========	
teaching profession144knowledgeTypes of responsibilities====	
144knowledgeTypes of responsibilities====	
154knowledgeDeterminants of the========	
teaching profession	
164knowledgeDeveloping and========	
consolidating the ethics	
of the teaching profession	
174knowledgeObjectives of educational========	
policy	
184knowledgeThe school principal is a========	
role model for teachers	
and students	
194knowledgeThe manager is a leader========	
and administrator	
20 4 knowledge The school principal is a ====	
supervisor and trainer	
214knowledgeThe teacher has a====	
message	
224knowledgeThe teacher and his====	
position in the	
educational process	
234knowledgeThe skills of a school========	
principal and a successful	
team	
244knowledgeField study========	
254knowledgeThe problem of the study====	
and its importance	
264knowledgeAbsenteeism and========	
dropping out of school	
274knowledgeAbsenteeism and========	
dropping out of school	
28 4 knowledge Reasons leading to school ====	
absence	

29	4	knowledge	Aggressive employee		====
			behavior in the		
			educational environment		
30	4	knowledge	The problem of poor ====		====
			academic achievement		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 2 marks for daily preparation and daily tests

Practical (5 marks for the first monthly exam + 5 marks for the second monthly exam)+3marks Evaluating absences and activities

60 marks (marks final theoretical exam)

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

1. Course Name: Genetics						
2. Course Code: bio 305						
3. Semester / Year: 2023/2024						
5. Semester / Teur. 2025/2021						
	2024					
4. Description Preparation Date: 1/2/2	2024					
5. Available Attendance Forms:						
6. Number of Credit Hours (30h) / Numb	per of Units (6)					
o. Humber of credit froms (501)/ Humb						
7. Course administrator's name (men	tion all, if more than one name)					
Name: Asst. Prof. Dr. Arshad Naji All	nasnawi					
Email: arshad@mu.edu.iq						
9. Course Obiectives						
8. Course Objectives						
Course Objectives	 The student learns about the basic principles of genetics 					
	 Explain sex-linked traits 					
	• Describes the basic structure of					
	genetic material					
9. Teaching and Learning Strategies						
Strategy						
Presentation strategy						
Brainstorming strateg	3Y					
Teamwork strategy						
Discussion strategy						
Blended learning strategy						
 Training and application strategy Interactive lesson strategy 						
Interactive lesson strategy						
10. Course Structure						

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1	2	1.Mendelian inheritance	1. Introduction, the law of isolation, the law of free distribution, and their cytological interpretation	Use learning strategies	 View questions and
2	2	2.Expansion of Mendelian inheritance 3. Genes	 Incomplete dominance, co-dominance Lethal genes, gene action 		answersPresenting
3	2	4. Alleles	overlap 4.Multiple alleles, heredity and sex, penetrance and gene expression		and interpreting educational
4	2	5. Quantitative genetics	5.Quantitative genetics: the importance of multiple genes, genetic Heritability,		situationsThe student is
5	2	6. Genetic linkage and crossing over	twins 6.Genetic linkage and crossing over: incomplete		assigned to write a
6	2		linkage, complete linkage, crossing mechanism, factors affecting crossing		reportTasks and
7	2	7. Genetic maps	over 7.How to draw genetic maps for eukaryotic organisms, comparison between crossing over and exchange between sister		duties of KozatMonthly exams
8	2	8. Bacteria	chromatids 8.Methods for the emergence of new genetic		
9	2	9. Chromosomes	structures in bacteria 9. Sex chromosomes and sex determination in		
10	2	10. Chromosomal mutations	various organisms 10.Chromosomal mutations, chromosomal abnormalities in humans		
11	2	11.Cytoplasmic inheritance	11.Cytoplasmic inheritance and maternal influence, shell wrapping in the shell Lymnaea, as in Paramecium.		
12	2	12. Mutations and diseases	12.Mutations in mitochondrial DNA in		
13	2	13. Synthesis DNA & RNA	humans and some diseases 13.Synthesis and molecular analysis of genetic material DNA,		
			Experiments to prove that DNA is genetic material And RNA is the genetic material in some		
14	2	14.DNA replication	14. DNA replication Proof that multiplication is performed in a semi- conservative manner.		
15	2	15. First semester exam	15. Replication enzymes		

16	2	16. The role of RNA	16. The role of RNA, the	
			processes of cutting and modification in its three	
17	2	17. Translation	types 17. Translation (protein	
		111 110101010	synthes, Genetic code and	
			its characteristics,	
			Cofactors, Construction of	
18	2	18. One gene	the peptide chain 18.Development of the	
			theory of one gene – one	
			polypeptide chain, genetic	
			control of metabolism 19.Regulation of gene	
19	2	19. Eukaryotic	expression in eukaryotic	
		20. Prokaryotes	cells	
20	2		20. Regulating gene expression in prokaryotes	
		21. Genetic mutation	21. Genetic mutation.	
21	2		Types according to molecular changes,	
			molecular changes, mutation,	
			Mutations are caused by	
		:	radiation and some	
22	2	22. DNA damage	22. DNA damage repair	
			systems, Transposable elements	
	2	23. Genomics	23.Genomics	
23			Genomics: Structure of	
			chromosomes, regulation of DNA sequences in	
			them, DNA extraction, and	
24	2	24. Genetic technology	clones 24.Applying some	
		Student seminar	literature on genetic	
			technology, such as	
			genetic engineering, in diagnosing some genetic	
			diseases and sorting DNA	
			fingerprints Completing the human	
25	2	25 semester exams	genome project	
26	2	26.Developmental genetics	25.Student seminar 26Developmental	
		Seneries	genetics, Apoptosis,	
			, How the niche state is	
			revealed from the	
77	2	27.Population genetics	organism's genome	
27	2		27. Population genetics27. genetic repositories Hardy	
			law, Weinberg, Gene	
28	2	28 Constine	replication and influencing	
		28.Genetics and development:	genetic factors 28.Genetics and	
		Chromosomal changes	development:	
			Chromosomal changes	
	2		and its relationship to the	
	2		emergence of species,	

29 30	2 2	29. Quiz 30. Second semester exam	The chromosome number doubled 29 Quiz 30. Second semester exam			
. Cou	urse Eva	luation		i		
preparation 10% first s semester (! assignment 40% pursu	n, daily o emester 5% theor ts = 40% it grade -	ral, monthly, or writte (5% theoretical + 5% etical + 5% practical) endeavour. + 60% final exam = 10	en exan practic + 2% a	e tasks assigned to the student such as daily ms, reports etc cal) + 15% mid-year exam + 10% second attendance + 3% assignments and		
	•	d Teaching Resour				
Required textbooks (curricular books, if any) Main references (sources)				علم الوراثة / سعد جابر تاج الدين , الوراثة العامة ، عبد		
	()		الحسين الغيصل Snustad, D. P., & Simmons, M. J. (2015). Principles of genetics. John Wiley & Sons		
Recommended books and references (scientific journals, reports)			entific	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/		
Electronic F	Reference	s, Websites		Yes		

1. Course Name:					
CHEMICAL					
2. Course Code:					
Bio 103					
3. Semester / Year:					
2023-2024					
4. Description Preparation Date:					
2023-2024					
5. Available Attendance Forms					
: Daily attendance					
6. Number of Credit Hours (Total) / Nu					
2 hours (theoretical) 2 hours(pract					
•	7. Course administrator's name (mention all, if more than one name)				
Name: lecturer israa hamdan					
Email: <u>israa.hamdan@mu.edu</u>	iq				
8. Course Objectives					
Course Objectives	 1- 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	Required	Unit or subject name	Learning	Evaluation

	rs	Learning		method	method
		Outcomes			
1	2	knowledge	Explanation of the		Weekly,
			material in detail	A student who	monthly,
			Review the article and	knows how to	daily, written
			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>
====					
====					

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

1. Course Name:						
Plant taxonomy						
2. Course Code: Bio 201						
3. Semester / Year:						
2023-2024						
4. Description Preparation Date:						
2023-2024						
5. Available Attendance Forms						
: Daily attendance						
6. Number of Credit Hours (Total) / Number of Units (Total):						
2 hours (theoretical)						
7. Course administrator's name (me	ntion all, if more than one name)					
Name: lecturer.dr. mohamed baqer Hussein						
Email: :.:Mohamed-almosawy@mu.edu.iq						
8. Course Objectives						
Course ObjectivesPlant taonomy is a very important topic in the Department of biology because classification is of great importance for the detection of it families and genera.						
9. Teaching and Learning Strategies						
StrategyPhycology is a very important topic in the Department of Life Scie because algae are of primary medical importance. Several important algae drugs have been discovered and are als nutritionally economic importance. They are an important sour 						

10. Cou	10. Course Structure						
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method		
1	2	knowledge	Introduction to plant taxonomy with classification fields that include diagnosis, nomenclature and	-Lecture, use of the blackboard and presentation -Demonstration	Theoretical, practical/oral and written examinations (daily, monthly and midterm exam) and scientific reports		

			classification, history of classification	(using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the	
				Classroom platform	
2	2	knowledge	Scientific name includes scientific name, genus name, and generic or local name	====	====
3	2	knowledge	Relationships between plants include evolutionary relationships between parents and grandparents		====
4	2	knowledge	Divide qualities in plants and include vegetative, reproductive, quantitative and qualitative qualities	====	
5	2	knowledge	Seed Plants (Spermatophytes) which includes angiosperms and gymnosperms	====	
6	2	knowledge	General terminology	====	====
7	2	knowledge	General terms	====	====
8	2	knowledge	Vegetative characters	====	====
9	2	knowledge	Root, its type and classification importance	====	====
10	2	knowledge	siems, types and classification importance	====	====
11	2	knowledge	leaves, their types and how important they are in classification	====	====
12	2	knowledge	Flowers and accessories which are considered stable qualities	====	====
13	2	knowledge	Fruits, types and classification significance	====	====
14	2	knowledge	Seeds and its types	====	====
15	2	knowledge	Bracts and their classification significance	====	====
16	2	knowledge	Pollen shapes	====	====
17	2	knowledge	Types of pollination and its classification importance	====	====
18	2	knowledge	Embryo and its classification significance	====	====
19	2	knowledge	Classification taxa, herbarium and botanical gardens	====	====
20	2	knowledge	Herbarium	====	====
21	2	knowledge	Garden Botanical and its importance	====	====
22	2	knowledge	Iraqi plants and plant wealth	====	====
23	2	knowledge	The importance of plant wealth	====	====

24	2	knowledge	Food plant	====	====
25	2	knowledge	Poisonous plants	====	====
26	2	knowledge	Medicine plant	====	====
27	2	knowledge	Industrial plant	====	====
28	2	knowledge	Split Plants	====	====
29	2	knowledge	Cytotaxonomy	====	====
30	2	knowledge	The most important axes of the study of chromosomes morphology		====

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

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

rse Co nester	ame: Comparative a ode: bio 303 · / Year: yearly (firs	anatomy							
nester									
	/ Year: yearly (firs								
		3. Semester / Year: yearly (first and second semester)							
4. Description Preparation Date:06/02/2024									
ilable	Attendance Forms:	Daily class attendance	;						
	f Credit Hours (Tota	al) / Number of Units ((Total)						
7. Course administrator's name (mention all, if more than one name) Name: professor Dr. Karima Akool Al Salihi Email: . <u>Kama-akool18@mu.ed.iq</u>									
8. Course Objectives									
Course Objectives • Study of comparative anatomy and details of the various body systems • Chordates according to the evolutionary perspective in terms of general structure • Origin, function, and evolutionary progression.									
9. Teaching and Learning Strategies									
 Strategy Knowledge the origin and development of body systems in chordat Comparison with a structural and functional orientation. 									
lours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method					
4	Knowledge	Origin & General aracters of chordates	White board &	Daily examine&					
	nber o Irse a ne: pro ail: . K rse Ol ctives	nber of Credit Hours (Total urse administrator's nam ne: professor Dr. Karima ail: . Kama-akool18@mu rse Objectives ctives ching and Learning Strate • Knowledge the orig • Comparison with a e Structure lours Required Learning Outcomes 4	nber of Credit Hours (Total) / Number of Units (urse administrator's name (mention all, if mone: professor Dr. Karima Akool Al Salihi ne: professor Dr. Karima Akool Al Salihi ail: . Kama-akool18@mu.ed.iq rse Objectives • Study of example • Chordate: perspective • Origin, functions • Knowledge the origin and development • Comparison with a structural and funct e Structure Hours Required Learning Outcomes Origin & General	urse administrator's name (mention all, if more than one ne: professor Dr. Karima Akool Al Salihi ail: . Kama-akool18@mu.ed.iq rse Objectives *rse Objectives *ctives • Study of comparative anativarious body systems • Chordates according to the perspective in terms of gene • Origin, function, and evolu ching and Learning Strategies • Knowledge the origin and development of body syst • Comparison with a structural and functional orienta e Structure tours Required Learning Unit or subject name Learning method 4 Origin & General White body for the body for th					

				overhead	oral
				projection	examine
2.	4	Knowledge	Classification of Chordates 1	White	Daily
				board &	examine&
				overhead	oral
				projection	examine
3.	4	Knowledge	Origin & General characters	White	Daily
		č	of chordates	board &	examine&
				overhead	oral
	<u> </u>			projection	examine
4.	4	Knowledge	Classification of Chordates 1	White	Daily
				board &	examine&
				overhead	oral
	<u>⊢_</u>			projection	examine
5.	4	Knowledge	Classification of Chordates	White	Daily
			2	board &	examine& oral
				overhead	
		77 1 1	Lete surround any avatom 1	projection White	examine
6.	4	Knowledge	Integumentary system 1	board &	Daily examine&
				overhead	oral
				projection	examine
7.	4	Vnowladge	Integumentary system 2	White	Daily
1.	4	Knowledge	integunientary system 2	board &	examine&
				overhead	oral
				projection	examine
8.	1	Knowledge	Skin derivatives	White	Daily
0.	4	KIIOwicuge	DRIII dell'y del	board &	examine&
				overhead	oral
				projection	examine
9.	4	Knowledge	Muscular system 1	White	Daily
2.	Ť	itile wiedbe		board &	examine&
				overhead	oral
				projection	examine
10.	4	Knowledge	Muscular system 2	White	Daily
				board &	examine&
				overhead	oral
	<u> </u>			projection	examine
11.	4	Knowledge	Digestive system 1	White	Daily
				board &	examine&
				overhead	oral
				projection	examine
12.	4	Knowledge	Digestive system 2	White	Daily
				board &	examine& oral
				overhead	examine
10		17 1 1	Digestive glands	projection White	
13.	4	Knowledge	Digestive glands	board &	Daily examine&
				overhead	oral
				projection	examine
14.	4	Knowledge	Respiratory system 1	White	Daily
14.	4	Knowledge	Respiratory system 1	board &	examine&
				overhead	oral
				projection	examine
15.	4	Knowledge	Respiratory system 2	White	Daily
15.	4	Kilowiedze		board &	examine&
				overhead	oral
				projection	examine
16.	4	Knowledge	Respiratory system 3	White	Daily
	I I			board &	examine&
	· · ·				

				overhead	oral
				projection	examine
17.	4	Knowledge	Theory and practical	White	Daily
		-	examination	board &	examine&
				overhead	oral
				projection	examine
18.	4	Knowledge	Excretory system 1	White	Daily
		-		board &	examine&
				overhead	oral
				projection	examine
19.	4	Knowledge	Excretory system 2	White	Daily
		-		board &	examine&
				overhead	oral
				projection	examine
20.	4	Knowledge	Excretory system 3	White	Daily
		c		board &	examine&
				overhead	oral
				projection	examine
21.	4	Knowledge	Genital system 1	White	Daily
			-	board &	examine&
				overhead	oral
				projection	examine
22.	4	Knowledge	Genital system 2	White	Daily
	1	1110.1110.0-	-	board &	examine&
				overhead	oral
				projection	examine
23.	4	Knowledge	Circulatory system	White	Daily
-0.	L L	1110		board &	examine&
				overhead	oral
				projection	examine
24.	4	Knowledge	Heart	White	Daily
21.	Т	MICHICODE		board &	examine&
				overhead	oral
				projection	examine
25.	4	Knowledge	Aortic arches	White	Daily
20.	Т	INIO II IVOD-		board &	examine&
				overhead	oral
				projection	examine
26.	4	Knowledge	Nervous system	White	Daily
20.	4	IXIIO WICUSC	···· · · · · · · · · · · · · · · · · ·	board &	examine&
				overhead	oral
				projection	examine
27.	4	Knowledge	Brain	White	Daily
27.	4	MIOWICUSC		board &	examine&
				overhead	oral
				projection	examine
28.	4	Knowledge	Cranial	White	Daily
20.	4	NIIUwicuze	Crama	board &	examine&
				overhead	oral
				projection	examine
29.	- <u>_</u>	Knowledge	Skeletal system 1	White	Daily
29.	4	Kilowicuge	SKeletal System 1	board &	examine&
				overhead	oral
				projection	examine
30.		Wnowlodge	Skeletal system 2	White	Daily
30.	4	Knowledge	Skeletal System 2	board &	examine&
				overhead	oral
					examine
				projection	Сланинс
11. C	Course Ev	/aluation			

First month (5 theory+ 2.5 (quiz+ attendances + 5 practical), midyear examination 15, second month (5 theory+ 2.5 (quiz+ attendances + 5 practical), final examin (18 practical + 42 theory).

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Text book of comparative anatomy
Main references (sources)	Comparative anatomy of Chordates by M A Ga
	H A Dauod
Recommended books and references (scientific	Comparative Anatomy of Chordates by Girish Chopra R C Gupta
journals, reports)	
Electronic References, Websites	Links for comparative anatomy

1. Course Name:						
جرائم حزب البعث						
2. Course Code:						
3. Semester / Year:						
2023-2024						
4. Description Preparation Date:						
2023-2024						
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: assistant teacher hussain ali hadhood Email: hussain.hadhood @mu.edu.iq						
8. Course Objectives						
Course Objectives	The course aims to identify the crime in terms of its definition and language					
	Terminologically, as well as the sections and					
	types of crimes, the most prominent decisions					
	of the Iraqi Supreme Criminal Court, what are					
	the social and psychological crimes, and the					
	most prominent					
	Its effects. Learn about environmental crimes and mass grave crimes					
	and mass grave ermites					
9. Teaching and Learning Strategies						
Strategy 1- Lecture, use of the blackb	oard and presentation					
	phs, pictures and educational films					
using a data projector)						
3- Interactive discussion						
4- Self-education						

10. Course Structure

Week	Hour s	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	knowledge	Baath crimes according to documentation by the Iraqi Supreme Criminal Court in 2005	-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, /oral and written examinations (daily, monthly and midterm exam) and scientific reports
2	2	knowledge	Concept of crimes	====	====
3	2	knowledge	Definition of crimes	====	====
4	2	knowledge	Crime departments	====	====
5	2	knowledge	Types of international crimes	====	
6	2	knowledge	Genocide crimes	====	====
7	2	knowledge	crimes against humanity		====
8	2	knowledge	War crimes	====	====
9	2	knowledge	Decisions of the Iraqi Supreme Criminal Court	====	====
10	2	knowledge	Social crimes	====	====
11	2	knowledge	Social effects of crimes	====	====
12	2	knowledge	Psychological crimes	====	====

	- T				
13	2	knowledge	Psychological effects of crimes	====	
14	2	knowledge	Violating Iraqi laws	====	====
15	2	knowledge	Prison and detention places of the Baath regime	====	
16	2	knowledge	The political and military decisions of the Baath regime	====	
17	2	knowledge	Environmental crimes of the Baath regime in Iraq	====	====
18	2	knowledge	Environmental crimes in Basra Governorate	====	====
19	2	knowledge	Genocide crimes and the use of chemical weapons in Halabja	====	
20	2	knowledge	Military and radioactive contamination and mine explosions.	====	
21	2	knowledge	Destruction of cities (scorched earth policy)	====	====
22	2	knowledge	The policy of draining and burning the marshes by the Baathist regime	====	====
23	2	knowledge	Destruction of orchards, forests and trees by the Baathist regime		
24	2	knowledge	Mass grave crimes	====	====
L		1		1	1

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25	2	knowledge	Chronological classification of genocide graves in Iraq from (1963-1978)		
26	2	knowledge	Graves of genocide committed by the defunct Baath regime for the period 1979-2003		
27	2	knowledge	Mass graves related to the Iran-Iraq War (1980- 1988)	====	
28	2	knowledge	Graves of the Barzanian Kurdish genocide of 1983	====	
29	2	knowledge	Genocide graves for victims of the Anfal massacre for the period 1987-1988	====	====
30	2	knowledge	Extermination cemeteries Collective Victims of the Shaabani Uprising of 1991		

11. Course Evaluation Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 2 marks for daily preparation and daily tests

Practical (5 marks for the first monthly exam + 5 marks for the second monthly exam)+3marks Evaluating absences and activities

60 marks (marks final theoretical exam)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	The Baath Party's crimes platform
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	Websites available on Google Chrome

Course Description Form 1. Course Name: insects 2. Course Code: Bio 301 3. Semester / Year: 2023-2024 4. Description Preparation Date: 2023-2024 5. Available Attendance Forms : Daily attendance 6. Number of Credit Hours (Total) / Number of Units (Total): 2 hours (theoretical) / Number of Units 6 7. Course administrator's name (mention all, if more than one name) Name: Lecturer. dr. osama ghazi abbas Email: asama.khazi@mu.edu.iq 8. Course Objectives Cell biology is considered one of the very **Course Objectives** important topics in the Department of Life Sciences due to the great importance it represents in knowing the cell's structures, components, and the behavior of its divisions. 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. Co	10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
1	1	knowledge	Historical Overview - General Features of Insects	-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	Morphology of insects	====	====
3	2	knowledge	Metamorphosis	====	====
4	2	knowledge	The head and its appendages	====	====
5	2	knowledge	Mouth parts	====	====
6	2	knowledge	The thorax and its parts in insects	====	====
7	2	knowledge	Legs	====	====
8	2	knowledge	Wings - their veining - motor muscles	====	====
9	2	knowledge	The abdomen	====	====
10	2	knowledge	Growth in insects	====	====
11	2	knowledge	Digestive	====	====
12	2	knowledge	Natures of food	====	====
13	2	knowledge	Digestion and methods of digestion	====	====
14	2	knowledge	Excretory system in insects	====	====
15	2	knowledge	Taxonomy - definition - historical overview	====	====
16	2	knowledge	Classification ranks	====	====
17	2	knowledge	Division - its types - taxonomic class	====	====
18	2	knowledge	Division of insects	====	====
19	2	knowledge	Modern system of division of insects	====	
20	2	knowledge	Classification procedures	====	====
21	2	knowledge	Diagnosis of patterns and taxonomic differentiation	====	====
22	2	knowledge	Differentiation mat in insect classification	====	====
23	2	knowledge	Differentiation mat in insect classification	====	====
24	2	knowledge	Taxonomic keys	====	====
25	2	knowledge	Nomenclature - scientific nomenclature	====	====
26	2	knowledge	Insecticidal orders	====	====
27	2	knowledge	The characteristic wings of the order Equiptera		====
28	2	knowledge	Characteristics of the order Homoptera	====	====
29	2	knowledge	Characteristic wings of the Orthoptera order	====	====
30	2	knowledge	Distinctive characteristics of two-winged insects	====	====

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

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. Course Name: human rights 2. Course Code: **UREQ102** 3. Semester / Year: 2023-2024 4. Description Preparation Date: 2023-2024 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: assistant teacher hussain ali hadhood Email: @mu.edu.iq hussain.hadhood 8. Course Objectives **Course Objectives** The study of man, the subject of truth, in terms of human nature and composition Introduction to it and its most prominent features as well as the types of rights These rights are defined in historical terms, and are of importance stipulated in human rights 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

10. Co	urse Struc	ture			
Week	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	knowledge	Introducing the human being as the subject of truth Manifestations of divine honor for man	-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, /oral and written examinations (daily, monthly and midterm exam) and scientific reports
2	2	knowledge	Human nature and formation	====	====
3	2	knowledge	Definition of the truth	====	====
4	2	knowledge	Human rights features	====	====
5	2	knowledge	Characteristics of human rights	====	====
6	2	knowledge	Types of human rights	====	====
7	2	knowledge	Roots of rights	====	====

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			Man and its development in human history.		
8	2	knowledge	Human rights in ancient civilizations and Islam	====	====
9	2	knowledge	International Bill of Human Rights	====	====
10	2	knowledge	Human rights resources	====	====
11	2	knowledge	International sources	====	====
12	2	knowledge	Regional and national sources	====	====
13	2	knowledge	International Agreements	====	====
14	2	knowledge	Regional conventions	====	====
15	2	knowledge	Human rights in the modern era.	====	====
16	2	knowledge	Rights and elections	====	====
17	2	knowledge	The concept and definition of elections	====	====

18	2	knowledge	The importance of elections	====	====
19	2	knowledge	Voting and referendum	====	====
20	2	knowledge	Human duties	====	====
21	2	knowledge	Restrictions on the exercise of human rights	====	====
22	2	knowledge	Democracy Concept	====	====
23	2	knowledge	History of democracy	====	====
24	2	knowledge	Features of a democratic system	====	====
25	2	knowledge	Advantages of democracy	====	====
26	2	knowledge	Components of democracy	====	====
27	2	knowledge	Constitution and democracy	====	====
28	2	knowledge	Civil society and democracy	====	====

29	2	knowledge	Contemporary democracy	====	====
30	2	knowledge	The relationship between human rights and democracy ⊘	====	====

11. Course Evaluation
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc
40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks

for the midterm exam) + 2 marks for daily preparation and daily tests Practical (5 marks for the first monthly exam + 5 marks for the second monthly exam)+3marks

Evaluating absences and activities

60 marks (marks final theoretical exam)

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
	human rights
	_

Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	Websites available on Google Chrome

1 C N	
1. Course Name:	
Phycology	
2. Course Code:	
Bio 304	
3. Semester / Year:	
2023-2024	
4. Description Preparation Date:	
2023-2024	
5. Available Attendance Forms	
: Daily attendance	
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):
2 hours (theoretical)	
7. Course administrator's name (me	ntion all, if more than one name)
Name: lecturer.dr. mohamed baqer l	
Email: :.:Mohamed-almosawy@mu.e	edu.iq
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	
	t topic in the Department of Life Sciend
	ary medical importance. Several ve
	ve been discovered and are also
	rtance. They are an important source
food to fill the shortage.	

10. Cour	se Struc	ture			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	knowledge	An introduction to algae continued to be named and important	-Lecture, use of the blackboard and presentation -Demonstration	Theoretical, practical/oral and written examinations (daily, monthly and

				(using graphs, pictures and educational films using a data projector) -Interactive discussion -Self-education - Open educational classes using the Classroom platform	midterm exam) and scientific reports
2	2	knowledge	Algae are present in various environments & the morphological and vegetative form of algae.		
3	2	knowledge	Study of reproduction and its methods include sexual & vegetatve and asexual reproduction.		
4	2	knowledge	Study blue green algae and their general qualities	====	====
5	2	knowledge	Study the brown algae and learn about their composition	====	====
6	2	knowledge	Study the red algae and know the composition of its cell wall	====	====
7	2	knowledge	Study the diatoms algae and know all their properties	====	====
8	2	knowledge	Study of green algae	====	====
9	2	knowledge	Study of the economic importance of green algae	====	====
10	2	knowledge	Study of the economic importance of yellowish or xanthophta algae	====	====
11	2	knowledge	Study cynophyta and their general qualities	====	====
12	2	knowledge	The presence of cyanophyta in various environments and the morphological of algae and the vegetable form of them		
13	2	knowledge	Comparison between blue green algae and bacteria		====
14	2	knowledge	Study the golden algae from all sides	====	====
15	2	knowledge	Knowledge of the economic and medical importance of golden algae		
16	2	knowledge	Study the phaephyta Algae from all sides	====	====
17	2	knowledge	Methods of isolating brown algae	====	====
18	2	knowledge	Types of asexual reproduction of brown algae	====	====
19	2	knowledge	Sexual reproduction of brown algae		====
20	2	knowledge	Study of euoglenophyta algae in terms of general qualities		====

21	2	knowledge	euoglenophytes algae life	====	====
			cycles		
22	2	knowledge	Economic Importance of	====	====
			euglenophyta Algae		
23	2	knowledge	Study of diatoms in terms of	====	====
			general qualities		
24	2	knowledge	reproduction methods for	====	====
		e	diatoms		
25	2	knowledge	Cellular Wall strcture And Type	====	====
		e	Of flagella And Food Stock For		
			diatoms		
26	2	knowledge	Representative pigments of	====	====
20	-	kilowiedge	diatoms		
27		1 1. 1	ulatoriis		
27	2	knowledge	General Features of	====	====
			Phytoplankton		
28	2	knowledge	oogamous & isogamous and	====	====
	_		hetrogamos reproduction for		
			Phytoplankton		
29	2	Imorriladaa	· · ·		
29	2	knowledge	Motion Mechanism for Algae	====	====
			and Phytoplankton		
30	2	knowledge	Approved foundations in the	====	====
			classification of algae and		
			Phytoplankton		

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

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), Psychology of school administration.
(scientific journals, reports) Electronic References, Websites	Websites available on Google Chrome

1.	Course	Name:	Plant	Physiology	
т.	Gouise	nume.	1 Iunit	I II y STOLOGY	

2. Course Code:

Bio 403

- 3. Semester / Year: 2023/2024
- 4. Description Preparation Date: 1/2/2024

5. Available Attendance Forms:

6. Number of Credit Hours (30h) / Number of Units (6)

7. Course administrator's name (mention all, if more than one name) Name: Asst. Prof. Dr. Arshad Naji Alhasnawi Email: arshad@mu.edu.iq

8. Course Objectives

• The student learns about the
principles of plant physiology
Explaining plant physiology
• Filtering the basic structure of
physiological processes and vital
viruses

9. Teaching and Learning Strategies

Strategy

- Presentation strategy
- Brainstorming strategy
- Teamwork strategy
- Discussion strategy
- Blended learning strategy
- Training and application strategy
- Interactive lesson strategy

10. Course Structure

Week	Hours	Required Learning	Unit or subject	Learning	Evaluation
		Outcomes	name	method	method
1	2	1. Introduction to the concept of plant physiology, its importance, and its relationship to the branches of science, its properties, and the reasons for acquiring those properties, solutions, and the	1. Plant physiology	Use learning strategies	 View questions and answers Presenting and interpreting educational
2 3	22	colloidal system. 2. Water relations of the plant cell 3. Diffusion: the concept, the diffusion of gases and their properties, and osmosis: the concept, ideal conditions, semi-mature and selective membranes (plant membranes)	 Water relations of the plant cell Diffusion 		 situational situations The student is assigned to write a report Tasks and duties of
4	2	4. Osmotic and water potential, pressure and the relationship between them, plasma contraction (plasma,	4. Water potential		KozatMonthly exams
5	2	methods of measuring types of potential) 5. Phloem transport, water absorption and transport in plants:	5. Phloem transport		
6	2	concept, mechanisms and influencing factors 6 Transpiration: the concept, stomata and their distribution, the mechanism of opening	6. Transpiration		
7	2	and closing stomata, factors affecting transpiration 7. Mineral nutrition for plants: mineral plant components, methods of studying them, basic elements (macro, micro, and beneficial	7. Mineral nutrition of the plant		
8	2	nutrients), passive absorption and its mechanisms. 8. Effective absorption: concept, evidence, mechanism, functions or physiological importance of the	8. Effective absorption		
9	2	essential elements 9. Photosynthesis: overview, pigments,	9. Photosynthesis		

		absorption spectrum		
		and action spectrum,		
		light and visible		
	2	spectrum		
10		10. Light reactions: the	10. Light reactions	
10		origin of oxygen and		
		evidence, electron		
		transfer, the Emberson		
		effect, the two		
		photosystems, and		
11	2	photophosphorylation.	11. Dark interactions	
11		11. Darkness reactions:		
		C3 and C4 plants		
		Calvin Wahagh Slack		
10	2	and CAM,		
12		photorespiration.	12. Phloem transport	
		12. Factors affecting photosynthesis and	12. Philoeni transport	
		phloem transport:		
		general overview,		
		features, and		
		mechanism		
13	2	13. Respiration:	13. Breathing	
	2	glycosylation and the	15. Dreauling	
		Cres cycle, the pentose		
		pathway (the fourth		
		week of		
		phosphorylation and		
	2	glyoxylate, the		
14		respiratory factor).		
		14. Plant growth and	14. Plant growth and	
		formation: the concept	formation	
		of growth, formation	101111101	
		and development,		
		places (the first week of		
		growth and types of		
		meristems, growth		
		kinetics)	15. Exam	
15	2	15. Exam	10. Enum	
16	2	16. Growth regulators	16. Growth regulators and	
	_	and plant hormones:	plant hormones	
		definitions, auxins	1	
		(discovery, distribution		
		in plants, transport,		
		plant biosynthesis.		
17	2	17. Effects,	17. Physiological effects	
		physiological,		
10	2	sensitivity of plant		
18	2	organs, decay		
		18. Gibberellins and	18. Gibberellins and	
		cytokines: discovery	cytokines	
		and physiological		
10	2	effects		
19	-	19. Acidic acid and	19. Acidic acid and	
		ethylene: discovery and	ethylene	
20	2	physiological effects	_	
	2	20. Photoperiod and	20. Photoperiod	
	$\frac{1}{2}$		21. Discussing reports	
22	<u> </u>		22. Phytochrome	
21 22	2 2	flowering, panicle 21. Discussing reports 22. Phytochrome:	21. Discussing reports	
		concept, conditions and physiological effects		

23 24 25	2 2 2	23. Plant movements: affiliative and positional movements (Nasties)24. Seed germination and latency25. Exam		nt movements mination m		
. Cοι	urse Eva	luation			I	I
preparatio 10% first s semester (assignmen 40% pursu	n, daily o emester 5% theor ts = 40% it grade	re out of 100 accordin ral, monthly, or writte (5% theoretical + 5% retical + 5% practical) endeavour. + 60% final exam = 10 nd Teaching Resour	en exar practio + 2% a	ns, reports etc cal) + 15% mid-y	: /ear exam +	10% second
	<u> </u>	curricular books, if any				
Main references (sources)				م طه یاسین(2001) قطر	بات. جامعة .د. بساه	اساسيات فسيلوجيا الذ
Recommen journals, re		s and references (sci	entific	هاب فسيولوجيا النبات موسوعة النبات ، مركز الاعداد والاشر اف العلمي كتور محمد حامد ادريس. حيوي وفسيلوجيا النبات. (2015). Plant ph Ed. 6). Sinauer A Lambers, H., Cha Plant physiologi New York: Sprin Lazar, T. (2003) physiology. 3rd of Bhatla, S. C., & Lal development and Vince Ördög (201 Agrármérnöki M	يتوى الكتاب مصدر، استكشافي العلمي ، ا اساسيات كيميو. E., Møller, I. M uysiology and c ssociates Incor pin, F. S., & Po cal ecology (V ger. . Taiz, L. and edn. I, M. A. (2023). d metabolism. 1). Plant physi (Sc szak tanany	A., & Murphy, A. سوزان مبارك الا d., & Murphy, A. development (No. rporated. ons, T. L. (2008). ol. 2, pp. 11-99). Zeiger, E. Plant Plant physiology, Springer Nature. ology. Az vagfejlesztése
	oforonoo	s, Websites	<u>TÁMOP-4.1.2-0</u> Yes	8/1/A-2009-0	010 projekt	

1. Course Name:						
Fungi						
2. Course Code:						
Bio 302						
3. Semester / Year:						
2023-2024						
4. Description Preparation Date:						
2023-2024						
5. Available Attendance Forms						
: Daily attendance						
6. Number of Credit Hours (Total) / Number of Units (Total):						
2 hours (theoretical) 2 hours(pract	ical)					
7. Course administrator's name (me						
Name:assistant teacher Zainab mu	hsen hassan					
Email: zainabmuhsen@mu.ec	lu.iq					
8. Course Objectives						
Course ObjectivesStudying fungi, their classification and v of living in nature, the economic importa of fungi, and identifying some of t harmful and beneficial effects.						
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	Hou	Required	Unit or subject name	Learning	Evaluation		
	rs	Learning		method	method		
		Outcomes					
1	2	knowledge	Definition and history of	-Lecture, use of	Theoretical,		
			mycology	the blackboard	practical/oral		
				and presentation	and written		
				-Demonstration	examinations		
				(using graphs,	(daily,		
				pictures and	monthly and		

				advastignal films	un de auro
				educational films	midterm
				using a data	exam) and
				projector)	scientific
				-Interactive	reports
				discussion	
				-Self-education	
				- Open	
				educational	
				classes using the	
				Classroom	
				platform	
2	2	knowledge	Growth in fungi	====	====
3	2	knowledge	The importance of fungi	====	====
4	2	knowledge	General characteristics of	====	====
			fungi		
5	2	knowledge	Cultivation and nutrition	====	====
			of fungi		
6	2	knowledge	Different life styles of	====	====
			fungi		
7	2	knowledge	Reproduction in fungi	====	====
8	2	knowledge	Structure of fungi	====	====
9	2	knowledge	The economic	====	====
		C C	importance of fungi		
10	2	knowledge	Classification of fungi	====	====
11	2	knowledge	Ways of living of fungi	====	====
12	2	knowledge	Mycotoxins	=====	====
13	2	knowledge	Kingdom of primitive	====	====
		U	fungi		
14	2	knowledge	Division of gelatinous	=====	====
			fungi		
15	2	knowledge	Study of general features,	====	====
			their classes, ranks, and		
			life cycle		
16	2	knowledge	Class:		====
10	-	Miowieage	Plasmodiophorom		
17	2	knowledge	Study of their		====
	-	into wreage	characteristics and		
			examples of some fungi		
			and their life cycles		
18	2	knowledge	Kingdom: Straminipila		
10	2	knowledge	isinguoini, Strannipila		====
19	2	Kilowieuge	Division: oomycota	====	
20	2	knowledge	Study their	====	
	-		characteristics and		
			classify them into		
			important orders and		
			important orders allu		

			families		
21	2	knowledge	order : Saproleginales	====	====
22	2	knowledge	Study its features, importance and life cycle	====	====
23	2	knowledge	Order: Peronosporales Family:pytgiaceae Family:peronosporales	====	====
24	2	knowledge	Study its features and give examples	====	====
25	2	knowledge	Family: Albuginaceae Study its features and give examples	====	====
26	2	knowledge	Kingdom : true fungi	====	====
27	2	knowledge	Division: Chytridiomycota	====	====
28	2	knowledge	Division: Zygomycota	====	====
29	2	knowledge	Division: Basidomycota	====	====
30	2	knowledge	Division:Ascomycota	====	====

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 2 marks for daily preparation and daily tests

Practical (5 marks for the first monthly exam + 5 marks for the second monthly exam)+3marks Evaluating absences and activities

60 marks (marks final theoretical exam)

12. Learning and Teaching Resources

Basics of mycology
Kingdom of fungi
Websites available on Google Chrome

1. Cour	rse Name: Biostatics	
2. Cou	rse Code:	
Math205		
3. Sem	ester / Year:	
2023-202	4/ second stage	
4. Desc	cription Preparation Date:	
2023-202	4	
5. Avai	ilable Attendance Forms	
: 2 ł	nours per week	
6. Num	ber of Credit Hours (Total) / Num	ber of Units (Total):
64 h		
7. Cou	rse administrator's name (ment	tion all, if more than one name)
Nam	ne: Prof. Dr. Mohammed Radwan	Mohmoud
Email: mo	drn@mu.edu.iq	
8. Cour	rse Objectives	
Course Objectives		 Identify the concept of inferential and inferential statistics. Identify the null and alternative statistical hypotheses and how to verify them. Identify the differences between statistics. Enabling students to be able to interpret statistical results. Enabling students to be able to distinguish between how to use nonparametric statistics. Enabling students to apply statistical methods appropriately in light of each topic.
9. Tead	ching and Learning Strategies	
Strategy	 Direct Instruction: Involves the and concepts, presenting informactivities. Blended Learning: Aims to learning process. Modern test traditional methods such as fact. Collaboration and Interaction between the teacher and studer learning. Active Learning: Encourages a including engaging in hands-or Problem-Based Learning: Food 	he teacher providing guidance, transferring knowledge rmation clearly, and guiding discussions and learning integrate traditional and electronic elements in the echnology and electronic tools are used alongside e-to-face lessons and printed books. n: Encourages collaboration between learners and nts, including group work, discussions, and interactive students to actively participate in the learning process, n activities and practical application of concepts. cuses on solving real problems and challenges that problem analysis and application of strategies to solve

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2				Exams,
			Introduction to		reports,
			statistics		discussions
					Quizzes
Second	2		Population and		Exams,
	-		sample/methods		reports,
			for selecting		discussions
			samples/paramete		Quizzes
			rs and		
			estimates/sample		
			errors		
Third	2				Exams,
			Measures of		reports,
			central tendency 1		discussions
					Quizzes
Fourth	2				Exams,
			Measures of		reports,
			central tendency 2		discussions
					Quizzes
Fifth	2				Exams,
			Data tab - tabular		reports,
			display		discussions
					Quizzes
Sixth	2				Exams,
			Frequency		reports,
			distribution table.		discussions
					Quizzes
Seventh	2				Exams,
			 Tabular display 		reports,
			of metadata.		discussions
					Quizzes
Eighth	2		• Frequency		Exams,
			distribution table		reports,
			for quantitative		discussions
			data.		Quizzes
Ninth	2		• Ascending and		Exams,
			descending		
			clustered		
			frequency table.		
Гenth	2		Measures of		reports,
	-		dispersion1		
Eleventh	2		Measures of		discussions
			dispersion2		
ſwelfth	2		Measures of		Quizzes
			dispersion3		
Fhirteenth	2		Monthly test		Exams,
Fourteenth	2		Statistical		reports,
			hypotheses/what		
			are statistical		
			hypotheses/null		

Sixteenth2Seventeenth2Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2 2 2 2 2	Monthly exams	hypotheses The chances of the researcher making an error when testing hypotheses/type 1 alpha error/type 2 beta error Variance Standard Deviation Range – Mean Deviation	discussions Quizzes discussions reports, discussions
Sixteenth2Seventeenth2Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2 2 2 2 2	Monthly exams	the researcher making an error when testing hypotheses/type 1 alpha error/type 2 beta error Variance - Standard Deviation Range	Quizzes discussions reports, discussions
Seventeenth2Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2 2 2 2 2	Monthly exams	making an error when testing hypotheses/type 1 alpha error/type 2 beta error Variance Standard Deviation Range	discussions reports, discussions
Seventeenth2Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2 2		when testing hypotheses/type 1 alpha error/type 2 beta error Variance Standard Deviation Range	discussions reports, discussions
Seventeenth2Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2 2		hypotheses/type 1 alpha error/type 2 beta error Variance Standard Deviation Range	discussions reports, discussions
Seventeenth2Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2 2		alpha error/type 2 beta error Variance Standard Deviation Range	discussions reports, discussions
Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2		beta error Variance – Standard Deviation Range	reports, discussions
Eighteenth2Nineteenth2Twentieth2	2 2 2 2 2		Standard Deviation Range	reports, discussions
Nineteenth2Twentieth2	2 2 2		Standard Deviation Range	discussions
Twentieth	2		Deviation Range	
Twentieth	2			
	2		– Mean Deviation	a i
Twenty-first			- Mean Deviation	Quizzes
Twenty-first				
			Standard error -	Exams,
			coefficient of	
			variation	
Twenty-	2		To employ	reports,
second			statistical	
			hypotheses in	
			research	
	2		To reduce the	discussions
third			possibility of the	
			researcher	
			making an error	
			when testing the	
			hypotheses, type 1	
			alpha error and	
Transfer	2		type 2 beta error To employ the	Quizzes
Twenty-	2		level of	Quizzes
Iourin			significance /	
			degrees of	
			freedom /	
			examples using	
			the statistical	
			package	
Twenty-fifth	2		To know the	Exams,
			inferential	
			statistics of the	
			monthly test	
Twenty-	2		To employ	reports,
sixth			statistical	
			hypotheses in	
T			research	
•	2			discussions
seventh			z test	
Twomter	-			Ouizzaa
eighth	2		T test	Quizzes
ninth	2		F test	Exams,
Thirtieth 2	2		Monthly exams	reports,

• Monthly tests for academic subjects. • Daily tests with multiple-choice questions for academic subjects. • Oral assessment through engaging students in discussions. • Practical exams. 12. Learning and Teaching Resources Required textbooks (curricular books, if any) Required textbooks (curricular books, if any) Main references (sources) Main references (sources) Recommended books and references Recommended books and references (scientific journals, (scientific journals, reports...) reports...) Electronic References, Websites Electronic References, Websites

1. Course Name:							
Computer							
2. Course Code:							
UREQ 103	UREQ 103						
3. Semester / Year:							
2023-2024/ first stage							
4. Description Preparation Date:							
2023-2024							
5. Available Attendance Forms							
: 2 hours per week							
6. Number of Credit Hours (Total) / N	umber of Units (Total):						
64 hours7. Course administrator's name (me	antion all if more than one name)						
	•						
Name: Shaimaa Kareem AbdullahEmail: 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							
 concepts, presenting infor activities. Blended Learning: Aims to process. Modern technology such as face-to-face lessons Collaboration and Interaction the teacher and students, ind Active Learning: Encourag including engaging in hands Problem-Based Learning: 	the teacher providing guidance, transferring knowledge and rmation clearly, and guiding discussions and learning integrate traditional and electronic elements in the learning and electronic tools are used alongside traditional methods and printed books. on: Encourages collaboration between learners and between cluding group work, discussions, and interactive learning. es students to actively participate in the learning process, s-on activities and practical application of concepts. Focuses on solving real problems and challenges that as problem analysis and application of strategies to solve						

10. Course	e Structur	e			
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First	2	A general introduction to computers and an introduction to computers	Computer Basics.	practical	Daily quizzes + Questions and Answers.
Second	2	Identify the hardware and software parts of the computer	Computer Basics.	practical	Daily quizzes.
Third	2	Number systems/binary system	Number Systems.	practical	Daily quizzes + Questions and Answers.
Fourth	2	Decimal system		practical	Daily quizzes + Questions and Answers.
Fifth	2	Converting from the binary system to the decimal system		practical	Daily quizzes + Questions and Answers.
Sixth	2	Converting from the decimal system to the binary system	=====	practical	Questions and Answers.
Seventh	2	Addition and subtraction operations in binary		practical	Questions and Answers.
Eighth	2	Multiplication and division operations in binary		practical	Daily quizzes + Questions and Answers.
Ninth	2	Algorithms and their types	=====	practical	Daily quizzes + Questions and Answers.
Tenth	2	Sequential algorithm and conditional algorithm		practical	Questions and Answers.
Eleventh	2	Recursive algorithm		practical	Daily quizzes + Oral questions and answers.
Twelfth	2	Applications to algorithms		practical	Daily quizzes.
Thirteenth	2	Flowcharts	=====	practical	Daily quizzes + Questions and Answers.
Fourteenth	2	Applications of Flowcharts		practical	
Fifteenth	2	Benefits of Flowcharts	=====	practical	Daily quizzes + Questions and Answers.
Sixteenth	2	Introduction to computer operating systems	Windows Operating System	practical	Daily quizzes + Questions and Answers.
Seventeenth			Mid-year break		-
Eighteenth	2	Interacting with Desktop Icons and Understanding Their Functions	Windows Operating System.	practical	Daily quizzes + Questions and Answers.
Nineteenth	2	File Commands (Delete, Copy, Cut, Paste, etc.) - Folder Commands (Create Folder, Delete, Copy, Cut, Paste, etc.)	Windows Operating System.	practical	Daily quizzes + Oral questions and answers.
Twentieth	2	Understanding the Contents of My Computer	Windows Operating System.	practical	Daily quizzes + Questions and Answers.
Twenty-first	2	Working with the Recycle Bin and Control Panel	Windows Operating System.	practical	Daily quizzes + Oral questions and answers.
Twenty- second	2	System Settings, Display, Sound, Using Menus and Commands	Windows Operating System.	practical	Daily quizzes + Questions and Answers.
Twenty- third	2	Creating and Editing Simple Text Documents using WordPad	Windows Operating System.	practical	Daily quizzes + Oral questions and answers.
Twenty- fourth	2	Performing basic arithmetic operations using a Calculator and providing tools for drawing and editing images and graphics through Paint.	Windows Operating System.	practical	Daily quizzes + Practical skills.
Twenty-fifth	2	Contents of the Settings window.	Windows Operating System.	practical	Daily quizzes + Questions and Answers.

Twenty- sixth	2	Understanding the commands in the computer system's Settings.	Windows Operating System.	practical	Daily quizzes + Oral questions and answers.
Twenty- seventh	2	Security and protection in the Windows system.	Windows Operating System.	practical	Daily quizzes + Questions and Answers.
Twenty- eighth	2	Understanding and Using Advanced Computer System Tools	Windows Operating System.	practical	Daily quizzes + Oral questions and answers.
Twenty- ninth	2	Introduction to the internet and using the browser in the system.	Windows Operating System.	practical	Daily quizzes + Practical skills.
Thirtieth	2	Browsing the internet and conducting searches through it.	Windows Operating System.	practical	Daily quizzes + Oral questions and answers.

11. Course Evaluation

- Monthly tests for academic subjects.
 Daily tests with multiple-choice questions for academic subjects.
 Oral assessment through engaging students in discussions.

• Practical exams.

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Basics of Computer and its Office applications, Part 2: Microsoft
	Office 2010
	By Dr. Ziad Mohammed Aboud, Mr. Ghassan Hameed Abdul
	Majeed, and Dr. Mustafa Diaa Al-Husseini
Main references (sources)	
Recommended books and references (scientific	
journals, reports)	
Electronic References, Websites	1- https://www.microsoft.com/ar-sa/windows
	2- https://support.microsoft.com/ar-
	sa/windows/%D8%A7%D9%84%D8%A7%D8%AA%D8%B5%D8
	%A7%D9%84-%D8%A8%D8%B4%D8%A8%D9%83%D8%A9-
	wi-fi-%D9%81%D9%8A-windows-1f881677-b569-0cd5-
	010d-e3cd3579d263
	3- Websites accessible through Google Chrome.

1. Course Name:	
Computer	
2. Course Code:	
MUR201	
3. Semester / Year:	
2023-2024/ second stage	
4. Description Preparation Date:	
2023-2024	
5. Available Attendance Forms	
: 2 hours per week	
6. Number of Credit Hours (Total) / Nu	mber of Units (Total):
64 hours 7. Course administrator's name (me	ntion all if more than one name)
	Email: shaimaa.kareem@mu.edu.ig
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	
 concepts, presenting informactivities. Blended Learning: Aims to i process. Modern technology such as face-to-face lessons a Collaboration and Interaction the teacher and students, incl Active Learning: Encourage including engaging in hands- Problem-Based Learning: H 	he teacher providing guidance, transferring knowledge and mation clearly, and guiding discussions and learning integrate traditional and electronic elements in the learning and electronic tools are used alongside traditional methods and printed books. In: Encourages collaboration between learners and between luding group work, discussions, and interactive learning. It is students to actively participate in the learning process, on activities and practical application of concepts. Focuses on solving real problems and challenges that a problem analysis and application of strategies to solve

10. Course	e Structure	e			
Week	Hours	Required Learning Outcomes	Unit or subject name	t Learning method	Evaluation method
First	2	Introduction to the system	Windows operating system	g practical	Daily Tests + Questions and Answers
Second	2	Using software in the system	Windows operating system		Daily Tests + Questions and Answers
Third	2	File and folder management in the system	Windows operating system	g practical	Daily Tests + Practical Task Evaluation
Fourth	2	System settings, screen, and sound, using menus and commands	Windows operatir system	g practical	Daily Tests + Questions and Answers
Fifth	2	Internet connectivity and using the browser in the system	Windows operatir system	g practical	Daily Tests + Practical Skills
Sixth	2	Windows System Security and Protection	Windows operating system	g practical	Daily Tests + Questions and Answers
Seventh	2	Familiarizing with Word Program Tabs and Toolbars	word	practical	Daily Tests + Practical Skills
Eighth	2	Home tab: Clipboard, Font, and Paragraph groups	word	practical	Daily Tests + Practical Task Evaluation
Ninth	2	Paragraph group and Sort group, View tab: Document Views group	word	practical	Daily Tests + Questions and Answers
Tenth	2	Table Tools tab: Design and Layout groups	word	practical	Daily Tests + Questions and Answers
Eleventh	2	Graphic group, Picture Tools group, Hyperlinks group	word	practical	Daily Tests + Practical Skills
Twelfth	2	Header & Footer group, Text group, Symbols group	word	practical	Daily Tests + Questions and Answers
Thirteenth	2	References tab, Table of Contents group, Footnotes group	word	practical	Daily Tests + Practical Task Evaluation
Fourteenth	2	References group, Citations & Bibliography group, Captions group, Index group, Sources group, Mailings tab, Mail Merge group	word	practical	Daily Tests + Questions and Answers
Fifteenth	2	Insert group, Writing and Inserting Fields group, Preview Results group	word	practical	Daily Tests + Questions and Answers
Sixteenth	2	Review tab, Proofing and Language group, Comments group, Tracking group	word	practical	Daily Tests + Practical Skills
Seventeenth	Mid-year	break			
Eighteenth	2	Understanding and using the Excel program interface and its basic components.	Excel	practical	Daily tests + Questions and Answers
Nineteenth	2	Ability to create and format tables and data in Excel.	Excel	practical	Daily tests + Questions and Answers
Twentieth	2	Knowing how to enter and edit data in cells.	Excel	practical	Daily tests + Oral Questions and Answers
Twenty-first	2	Ability to create simple charts and diagrams to visualize data.	Excel	practical	Daily tests + Questions and Answers

Twenty-	2	Dealing with lists and performing	Excel	practical	Daily tests + Oral Questions and
second	2	basic operations such as adding, deleting, and modifying.	LACI	practical	Answers
Twenty- third	2	Using simple formulas and basic mathematical functions in Excel such as SUM, AVERAGE, and COUNT	Excel	practical	Daily tests + Practical Skills
Twenty- fourth	2	Using built-in tools in Excel to analyze data and perform advanced calculations.	Excel	practical	Daily tests + Questions and Answers
Twenty-fifth	2	Dealing with lists and performing basic operations such as adding, deleting, and modifying.	Excel	practical	Daily tests + Oral Questions and Answers
Twenty- sixth	2	Analyzing data in lists using pivot tables and charts.	Excel	practical	Daily tests + Questions and Answers
Twenty- seventh	2	Understanding and using logical functions in Excel such as IF, AND, and OR.	Excel	practical	Daily tests + Oral Questions and Answers
Twenty- eighth	2	Understanding and using advanced tools in Excel for statistical analysis and complex calculations	Excel	practical	Daily tests + Practical Skills
Twenty- ninth	2	Using built-in tools in Excel to analyze data and perform advanced calculations.	Excel	practical	Daily tests + Oral Questions and Answers
Thirtieth	2	Dealing with lists and performing basic operations such as adding, deleting, and modifying.	Excel	practical	Daily tests + Questions and Answers

11. Course EvaluationMonthly tests for academic subjects.

- Daily tests with multiple-choice questions for academic subjects.
 Oral assessment through engaging students in discussions.
- Practical exams.

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Basics of Computer and its Office applications, Part 2: Microsoft
	Office 2010
	By Dr. Ziad Mohammed Aboud, Mr. Ghassan Hameed Abdul
	Majeed, and Dr. Mustafa Diaa Al-Husseini
Main references (sources)	
Recommended books and references (scientific	1- "Beginning Microsoft Word 2010" by T.Y. Anderson and
journals, reports)	Guy Hart-Davis.
	2- "Excel 2019 Bible" by Michael Alexander, Richard
	Kusleika, and John Walkenbach.
	3- "Excel 2019: The Comprehensive Guide" by Mohamed El-
	Ghandour and Ahmed Khalifa.
Electronic References, Websites	1- <u>https://www.microsoft.com/ar-eg/microsoft-365/excel</u>
	2- <u>https://www.microsoft.com/ar-eg/microsoft-365/word</u>
	3- <u>https://support.microsoft.com/ar-eg/word</u>

1 Cour	rse Name: Biochemistry	
1. Cour	se maine. Diochemistry	
2. Cour	rse Code:	
BIO204		
3. Seme	ester / Year: Year	
2023-2024/	/ second stage	
	ription Preparation Date:	
2023-2024		
5. Avai	lable Attendance Forms	
2 hours / w	/eek	
6. Num	ber of Credit Hours (Total) / Num	ber of Units (Total):
60 hours		
7. Cour	rse administrator's name (mention a	all, if more than one name)
Name: Pro	of. Dr. Jawad K. Muraih H	Email: jmuraih@mu.edu.iq
	se Objectives	
Course Objec	•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.
9. Teac	hing and Learning Strategies	
Strategy	 and concepts, presenting informactivities. Blended Learning: Aims to the learning process. Modern text traditional methods such as face. Collaboration and Interaction between the teacher and studer learning. Active Learning: Encourages static including engaging in hands-on Problem-Based Learning: Foce 	e teacher providing guidance, transferring knowledge mation clearly, and guiding discussions and learning integrate traditional and electronic elements in the chnology and electronic tools are used alongside e-to-face lessons and printed books. a: Encourages collaboration between learners and ints, including group work, discussions, and interactive tudents to actively participate in the learning process, activities and practical application of concepts. uses on solving real problems and challenges that roblem analysis and application of strategies to solve

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Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method	
First	2	Learning and teaching	Cells, Water and Buffers	ppt and white board	Quiz and discussion	
Second	2	Learning and teaching	Bioenergetics	ppt and white board	Quiz and discussion	
Third	2	Learning and teaching	Carbohydrates, Monosaccharides	ppt and white board	Quiz and discussion	
Fourth	2	Learning and teaching	Oligo and polysaccharides	ppt and white board	Quiz and discussion	
Fifth	2	Learning and teaching	Amino acids	ppt and white board	Quiz and discussion	
Sixth	2	Learning and teaching	Peptides and proteins	ppt and white board	Quiz and discussion	
Seventh	2	Learning and teaching	Protein separation and purification	ppt and white board	Quiz and discussion	
Eighth	2	Learning and teaching	Protein structures	ppt and white board	Quiz and discussion	
Ninth	2	Learning and teaching	Protein denaturation and renaturation	ppt and white board	Quiz and discussion	
Tenth	2	Knowledge	Exam			
Eleventh	2	Learning and teaching	Fatty acids, structures and properties	ppt and white board	Quiz and discussion	
Twelfth	2	Learning and teaching	Lipids, membrane lipids	ppt and white board	Quiz and discussion	
Thirteenth	2	Learning and teaching	Enzymes, classification and roles	ppt and white board	Quiz and discussion	
Fourteenth	2	Learning and teaching	Effect of enzymes on activation energy	ppt and white board	Quiz and discussion	
Fifteenth	2	Learning and teaching	Enzyme kinetics ppt and white boar		Quiz and discussion	
Sixteenth	2	Learning and teaching	Enzyme inhibition	ppt and white board	Quiz and discussion	
Tightografh						
Eignieenth	2	Learning and teaching	Nucleotides and nucleosides	ppt and white board	Quiz and discussion	
Eighteenth Nineteenth	2 2	Learning and teaching Learning and teaching	Nucleotides and nucleosides DNA and RNA	ppt and white board ppt and white board		
5					Quiz and discussion	
Nineteenth	2	Learning and teaching	DNA and RNA Chargaff's rules in the double-	ppt and white board	Quiz and discussion	
Nineteenth Twentieth Twenty-first Twenty-	2 2	Learning and teaching Learning and teaching	DNA and RNA Chargaff's rules in the double- stranded DNA DNA as carrier of genetic	ppt and white board ppt and white board	Quiz and discussion Quiz and discussion Quiz and discussion	
Nineteenth Twentieth	2 2 2	Learning and teaching Learning and teaching Learning and teaching	DNA and RNA Chargaff's rules in the double- stranded DNA DNA as carrier of genetic information	ppt and white board ppt and white board ppt and white board	Quiz and discussion Quiz and discussion	
Nineteenth Twentieth Twenty-first Twenty- second Twenty-	2 2 2 2 2	Learning and teaching Learning and teaching Learning and teaching Learning and teaching	DNA and RNA Chargaff's rules in the double- stranded DNA DNA as carrier of genetic information Gene expression and replication	ppt and white board ppt and white board ppt and white board ppt and white board	Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion	
Nineteenth Twentieth Twenty-first Twenty- second Twenty- third Twenty-	2 2 2 2 2 2	Learning and teaching Learning and teaching Learning and teaching Learning and teaching Learning and teaching	DNA and RNA Chargaff's rules in the double- stranded DNA DNA as carrier of genetic information Gene expression and replication Protein synthesis, translation	ppt and white board ppt and white board ppt and white board ppt and white board	Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion	
Nineteenth Twentieth Twenty-first Twenty- second Twenty- third Twenty- fourth Twenty-fifth Twenty-	2 2 2 2 2 2 2 2	Learning and teaching Learning and teaching Learning and teaching Learning and teaching Learning and teaching Knowledge	DNA and RNA Chargaff's rules in the double- stranded DNA DNA as carrier of genetic information Gene expression and replication Protein synthesis, translation Exam	ppt and white board ppt and white board ppt and white board ppt and white board ppt and white board	Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion	
Nineteenth Twentieth Twenty-first Twenty- second Twenty- third Twenty- fourth Twenty-fifth Twenty- sixth Twenty-	2 2 2 2 2 2 2 2 2	Learning and teaching Learning and teaching Learning and teaching Learning and teaching Learning and teaching Knowledge Learning and teaching	DNA and RNA Chargaff's rules in the double- stranded DNA DNA as carrier of genetic information Gene expression and replication Protein synthesis, translation Exam Metabolism, significant in medicine	ppt and white board ppt and white board	Quiz and discussion Quiz and discussion	
Nineteenth Twentieth Twenty-first Twenty- second Twenty- third Twenty- fourth	2 2 2 2 2 2 2 2 2 2 2	Learning and teaching Learning and teaching Learning and teaching Learning and teaching Learning and teaching Knowledge Learning and teaching Learning and teaching	DNA and RNA Chargaff's rules in the double-stranded DNA DNA as carrier of genetic information Gene expression and replication Protein synthesis, translation Exam Metabolism, significant in medicine Glucose metabolism, Glycolysis Pyruvate degradation in	ppt and white board ppt and white board	Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion Quiz and discussion	

Thirtieth	2	Knowledge	Rev	view	ppt and white board	Quiz and discussion		
11. Course l	11. Course Evaluation							
• Monthly tes	• Monthly tests for academic subjects.							
• Daily tests v	• Daily tests with multiple-choice questions for academic subjects.							
Oral assessment	• Oral assessment through engaging students in discussions.							
Practical example	ams.							
12. Learning	g and Tea	ching Resou	irces					
Required text	books (cu	irricular boo	ks, if any)	Principles of Biochemistry	y by Lehninger			
Main reference	ces (sourc	es)		Biochemistry Notes				
Recommende	d boo	ks and	references	Fundamentals of Biochem	istry by Voet and V	⁷ oet		
(scientific jou	rnals, rep	orts)						
Electronic Re	ferences,	Websites		Electronic classroom				

1. Course Name:						
Foundations of education						
2. Course Code:						
CREEQ100						
3. Semester / Year:						
2023/ 2024						
4. Description Preparation Date:						
28/2/ 2024						
5. Available Attendance Forms:						
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: Noor AL Huda Mohammed						
Email: <u>nooralhuda.mhmd@edu.iq</u>						
8. Course Objectives						
Course Objectives• Historical basis.Introducing students to the principles a• Social basis.						
Introducing students to the principles a• Social basis.foundations of education• Application and exercise	e for					
educational field.	0 101					
9. Teaching and Learning Strategies						
Strategy						
	.1					
Modern and classical teaching method and combination	th					
COMBINATION						
10. Course Structure						
Week Hours Required Unit or subject Learning Evaluation	n					
Learning name method method						
Outcomes						

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For		foundati	undations		dialog
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		foundations	undations	on	
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		breeding			Evaluation
		Dictuille	Dieeuing	on	Questions
				UII	Questions
Seventh	2 hours				
Jeventii	= 110u15	Exam	Exam	Exam	

Eighth Ninth	2 hours 2 hours	Theories of education Theories of education	Theories of education Theories of education		Speec dialog e a discu ssion	ions
Tenth	2 hours	Theories of education	Theories of education		Speec dialog e a discus	Speed dialog and discu ssion
Eleventh	2 hours	Education among the primitives	Education		on	
Twelfth	2 hours	Education among the primitives	among the primitives Education among the primitives		Speec dialog e a discus on	Speed dialog and discus on Speed dialog
Fourteent	2 hours	Education in the Mesopotamia n civilization	Education in the Mesopotamian civilization		Speec dialog e a discus on	and discus on Speeci dialog
Fifteent h	2 hours	Education in the Mesopotamia n civilization	Education in the Mesopotamian civilization	beech, ialogu and scussi on beech,		and discus on

Sixteent h	2 hours	Education in the Pharaonic civilization	Education in the Pharaonic civilization	ialogu and discu ssion	Evaluation Questions
sevente enth	2 hours	Education in the Pharaonic civilization	Education in the Pharaonic civilization	beech, ialogu and scussi on	Evaluation Questions
eighteen th	2 hours	Education in the Pharaonic civilization	Education in the Pharaonic civilization	beech, ialogu and scussi on	Evaluation Questions
ninetee nth	2 hours	Education in the Pharaonic civilization	Education in the Pharaonic civilization	beech, ialogu and scussi on	Evaluation Questions
twentiet h	2 hours	Education in the Pharaonic civilization	Education in the Pharaonic civilization	Exam	Evaluation Questions
Twenty- first	hours 2 hours	Chinese Education Chinese	Chinese Education	peech, ialogu and discu ssion	Evaluation Questions
		Education			

Twenty-		Chinese	Chinese		
third tithes	2 hours	Education	Education	beech, ialogu and scussi	Evaluation Questions
Twenty- fourth	2 hours	Exam	Exam	on beech, ialogu and scussi	Evaluation Questions
Twenty- fifth	2 hours	Modern and Contemporar y Education	Modern and Contemporary Education	on	
Twenty- sixth	2hors	Modern and Contemporar y Education	Modern and Contemporary Education	beech, ialogu and scussi	Evaluation Questions
Twenty- seventh	2hours	Modern and Contemporar y Education	Modern and Contemporary Education	on beech, ialogu	Evaluation Questions
Twenty- ninth	2 hours	Modern and Contemporar y Education	Modern and Contemporary Education	and scussi on Final	Evaluation Questions
Thirty- ninth	2 hours	exam	Final exam	exam	Final exam

11. Cou	irse Evaluat	ion				
		it of 100 according nonthly, or written		he tasks assigned to the student such as daily uns, reports etc		
12. Lea	rning and To	eaching Resourc	es			
Required te	xtbooks (curri	cular books, if any)		There isn't any		
Main referen	nces (sources)		Modern and classical teachi method and their combination		
Recommended books and references (scientific			tific	Modern and classical teachi		
journals, reports)				method and their combination		
Electronic R	eferences, W	ebsites		All related sites		

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1. Cour	1. Course Name:				
English La	nguage				
	se Code:				
MUR 101	se coue:				
3. Seme	ester / Year:				
2023-2024	ł				
1 Desc	ription Proparation Date:				
2023-2024	ription Preparation Date:				
	able Attendance Forms				
: Dai	ly attendance				
6. Num	ber of Credit Hours (Total) / Nur	nber of Units (Total):			
1 hou	ur (theoretical)				
	rse administrator's name (mer	ntion all, if more than one name)			
	e: Assistant Professor Munthir	· · · · · · · · · · · · · · · · · · ·			
i i i i i i i i i i i i i i i i i i i					
	Email: <u>munthirshakir@mu.ed</u>	<u>u.iq</u>			
8. Cour	se Objectives				
Course Object	tives	The objective is to help students acquire and			
		improve their skills at a beginner level. This			
		includes building vocabulary, improving			
		pronunciation, and developing grammatical understanding.			
9. Teac	hing and Learning Strategies				
Strategy	1. Emphasize interactive and mean	ingful communication in English. Encourage stude			
		issions, and role-plays to practice their speaking a			
	listening skills.				
	2- Lecture, use of the blackboard an	d presentation			
	3- Demonstration (using graphs, pictures and educational films using a data projector)				
	4- Interactive discussion				
	45- Self-education				

10. Cour	10. Course Structure								
Week	Hou rs	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method				
1	1	knowledge	 Introduction to the course and syllabus overview Greetings and introductions Numbers, plurals, and basic vocabulary 	 -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	1	knowledge	vocabulary related to countries. - Questions and Answers in	====	====				
3	1	knowledge	- Vocabulary of jobs	====	====				
4	1	knowledge	 Presenting and practicing The alphabet 	====	====				
5	1	knowledge	Simple present tense (forms and structures).	====	====				
6	1	knowledge	Negatives and Questions	====	====				
7	1	knowledge	Personal information	====	====				
8	1	knowledge	Social Expressions (I)	====	====				

9	1	knowledge	Mid-term Exam	====	====
10	1	knowledge	' vocabulary related to family and friends	====	====
11	1	knowledge	Possessive pronouns (our, their)	====	====
12	1	knowledge	Sports/Food/Drinks • PresentSimple- 1/you/we/they • a/an	====	====
13	1	knowledge	Languages and nationalities • Numbers and prices	====	====
14	1	knowledge	The time • Present Simple he/she • always/sometimes/never	====	====
15	1	knowledge	Words that go together • Days of the week	====	====
16	1	knowledge	Exam	====	====
17	1	knowledge	this/that •Adjectives • Can I '	====	====
18	1	knowledge	Question words • me/him/us/them	====	====
19	1	knowledge	Directions	====	====
20	1	knowledge	Prepositions	====	====
21	1	knowledge	irregular verbs • have/do/goWhen's your birthday?	====	====
22	1	knowledge	Saying years • was/were born	====	====
23	1	knowledge	Past Simple - regular and irregular	====	====
24	1	knowledge	Questions and negatives	====	====
25	1	knowledge	Sport and leisure terms	====	====
26	1	knowledge	Adjective+ noun	====	====
27	1	knowledge	can/can't Adverbs	====	====

28	1	knowledge	I'd like- some/any • In a restaurant • Signs all around	====	====
29	1	knowledge	Colours and clothes • Present Continuous	====	====
30	1	knowledge	Opposite verbs • What's the matter?	====	====

11. Course Evaluation Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc

40 marks (5 marks for the first monthly exam + 5 marks for the second monthly exam + 15 marks for the midterm exam) + 2 marks for daily preparation and daily tests

Practical (5 marks for the first monthly exam + 5 marks for the second monthly exam)+3marks Evaluating absences and activities

60 marks (marks final theoretical exam)

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

1. Course Name:						
Developmental Psychology						
2. Course Code:						
CREQ201						
3. Semester / Year:						
2023/ 2024						
4. Description Preparation Date:						
28/2/ 2024						
5. Available Attendance Forms:						
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: Noor AL Huda Mohammed						
Email: <u>nooralhuda.mhmd@edu.iq</u>						
0. Ocume Objectives						
8. Course Objectives						
Course Objectives• Historical basis.Introducing students to the principles and• Social basis.						
Developmental Psychology • Application and exercise	for					
educational field.						
9. Teaching and Learning Strategies						
Strategy						
Modern and classical teaching method and	th					
Modern and classical teaching method and th combination						
10. Course Structure						
Week Hours Required Unit or subject Learning Evaluation	1					
Learning name method method						
Outcomes						

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		aning	g of	e a	and
		educa	-	discus	discu
Sec		Developr		on	ssion
d	2hoi	ntal derst	andi		
	S	Psycholo	the		
		aning	g of	Speec	Spee
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For		undat	tions		dialog
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					on
Sixth	2 hours	The	The	Speec	Questions
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Seventh	2 hours	~ ~			
		Exar	n	Exam	

Eighth Ninth	2 hours 2 hours	The soc basis education The foundation s of ancien breeding	Theories of education	Speec dialog e a discu ssion	
Tenth Eleventh	2 hours 2 hours	Exam Theories of Psychology	Theories of	Speed dialog e a discus on	dialog and
Twelfth	2 hours	Theories of Psychology	education Theories of Psychology	Speec dialog e a discus on	dialog and
Fourteent	2 hours	Theories of Psychology	Laws of Developmenta l Psychology	Speec dialog e a discus on	on
Fifteent h	2 hours	Laws of Development al Psychology	Laws of Developmenta l Psychology	beech, ialogu and scussi on beech,	Speec dialog and discus on

Sixteent h	2 hours	Laws of Development al Psychology	Laws of Developmenta l Psychology	ialogu and discu ssion	Evaluation Questions
sevente enth	2 hours	Laws of Development al Psychology	Laws of Developmenta l Psychology	beech, ialogu and scussi on	Evaluation Questions
eighteen th	2 hours	Laws of Development al Psychology	Laws of Developmenta l Psychology	beech, ialogu and scussi on	Evaluation Questions
ninetee nth	2 hours	Education in the Pharaonic civilization	Psychology in the Pharaonic civilization	peech, ialogu and	Evaluation Questions
twentiet h	2 hours	Psychology in the	Psychology in the Pharaonic civilization	scussi on Exam	Evaluation Questions
Twenty- first	hours	Pharaonic civilization	Education in the Pharaonic civilization	beech, ialogu and discu	Evaluation Questions
	2 hours		Chinese Education	ssion	

Twenty- third tithes	2 hours	Education in the Pharaonic civilization	Chinese Education	peech, ialogu and scussi on	Evaluation Questions
Twenty- fourth	2 hours	Education in the Pharaonic civilization	Exam	beech, ialogu and scussi on	Evaluation Questions
Twenty- fifth	2 hours		Modern and		
Twenty- sixth	2hors	Education in the Pharaonic civilization	Contemporary Education Modern and	peech, ialogu	Evaluation Questions
Sixti			Contemporary Education	and scussi on	
Twenty- seventh	2hours	Psychology Chinese	Modern and Contemporary Education	peech, ialogu	Evaluation Questions
Twenty- ninth	2 hours	Psychology in the Pharaonic civilization	Modern and Contemporary Education	and scussi on	Evaluation Questions
Thirty- ninth	2 hours	Final exam	Final exam	Final exam	Final exam

11. Course Evaluation						
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc						
Exam 1: 10 mark						
Exam2: 15 mark						
Daily report: 2 mark						
Attendance: 3 mark						
Exam 3: 10 mark						
Final exam: 60 mark						
12. Learning and Teaching Resources						
Required textbooks (curricular books, if any)	There isn't any					
Main references (sources)	Modern and classical teachi method and their combination					
Recommended books and references (scientific	Modern and classical teachi					
journals, reports) method and their com						
Electronic References, Websites	All related sites					