

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



Al-Ayen Iraqi University College of medicine Quality Assurance Unit

Course Description

Anatomy 1st stage

2025-2026

1. Course Name:	
Anatomy (1)	
2. Course Code:	
3. Semester / Year:	
Semester (1) / first level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 60 , Practical: 60 , Total: 120	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Abduljabbar yassin Dr. Kareem Dawood Alzarqani Dr. Haider Mohammed	
8. Course Objectives	
Striving to prepare doctors with high scientific, skill and professional qualifications, as well as developing research capacity in medical aspects and various fields of Anatomy in a way that serves society. The program also aims to introduce modern educational methods and employ advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities. Encouraging scientific research and employing it to contribute to solving community health and social problems.	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving

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10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Introduction	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Descriptive anatomical terms & planes and adaptation	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Systemic anatomy	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Upper Limb - Bones of upper limb	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
5	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Muscles of pectoral regi	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Muscles of the arm	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Muscles of the forearm	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Muscles of the hand	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5C4/ C5	Cutaneuos nerv	Lectures (Interactive) OnlineLectures (Interact	Midterm exams Practical exam Final exams

				Role play Team-based learning presentation) Discussion Problem solving	evaluations
10	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Venous drainage	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Arteries of the upper limb	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Lower Limb - Introduction to lower limb	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Hip & thigh muscles	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

14	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Gluteal region	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Knee joint	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Muscles of the leg	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Muscles of the foot		Midterm exams Practical exam Final exams evaluations
18	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Arteries of the lower limb	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Nerves of the lower limb	Lectures (Interactive) OnlineLectures (Interact	Midterm exams Practical exam Final exams

				Role play Team-based learning presentation) Discussion Problem solving	evaluations
20	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Thorax –	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
21	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Intercostal space & muscle	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Mediastinum	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Heart & pericardium	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

24	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Lung & pleura	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	2	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Diaphragm	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26		A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Thoracic wall & cavity	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27		A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	muscles	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28		A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Arteries	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
29		A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Revisions	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30		A 1 /A7/A8 B3/B5/B17 C1/C4/ C5		Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Snell clinical anatomy Grants atlas of human anatomy
Main references (sources)	Snell clinical anatomy Grants atlas of human anatomy
Recommended books and references (scientific journals, reports...)	Cunningham manual of practical anatomy vol. I Cunningham manual of practical anatomy vol. II
Electronic References, Websites	University educational platform

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**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
Anatomy 2nd stage
2025-2026**

1. Course Name:	
Anatomy (2)	
2. Course Code:	
3. Semester / Year:	
Semester (1) / second level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 90 , Practical: 60 , Total: 150	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Abduljabbar yassin Dr. Kareem Dawood Alzarqani Dr. Akram Jawda	
8. Course Objectives	
Striving to prepare doctors with high scientific, skill and professional qualifications, as well as developing research capacity in medical aspects and various fields of Anatomy in a way that serves society. The program also aims to introduce modern educational methods and employ advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities. Encouraging scientific research and employing it to contribute to solving community health and social problems.	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving

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10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Anterior abdominal wall (muscles, blood & nerve supply)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Stomach. & duodenum (Structure, relations, blood & nerve supply)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Small intestine. (Structure, relations, blood & nerve supply)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Large intestine. (Structure, parts, relations, blood & nerve supply)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
5	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Liver & gall bladder. (Structure, relations blood & nerve supply)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Pancreas & spleen. (Structure, relations, blood & nerve supply)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Kidney. (Structure , relations, blood & nerve supply)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Blood & lymph supply of pelvis.	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

9	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Pelvic cavity. (Structure ,wall contents)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
10	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Male genital organ. (Structure, parts , blood nerve supply)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Female genital organ. (Structure parts , blood& nerve supply)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Skull. (Osteology, walls, important structures & foramen)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Dural folds. & Cranial venous sinus (Structures & types)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
14	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Cranial cavity. (foss boundries, main structures & foramen	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Orbit. (Muscles, relations, blood supply& nerve supp	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Face. (Fascia, boundaries, contents blood & nerve suppl	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Salivary gland. (Structure ,blood & nerve supply)		Midterm exams Practical exam Final exams evaluations
18	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Muscles of mastication. (origin, Insertion, nerve supply)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

19	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Triangles of neck. (Structures &types)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Larynx, Nose & paranasal sinuses (Structure ,blood & nerve supply)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
21	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Pharynx & Thyroid gland (Structure ,blo & nerve supply)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Neurology Introduction.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Brain. (Surface anatomy & function)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
24	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Brain. (Blood supply venous drainage)	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Brain stem.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Brain ventricles & C circulation	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Cranial nerves.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Spinal cord & vertebra column.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
29	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Sympathetic nervous system.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	3	A 1 /A7/A8 B3/B5/B17 C1/C4/ C5	Parasympathetic nervous system.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Snell clinical anatomy Grants atlas of human anatomy
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Electronic References, Websites	University educational platform

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**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
Behavioral Science
2025-2026**

1. Course Name:	
Behavioral Science	
2. Course Code:	
3. Semester / Year:	
Fourth year	
4. Description Preparation Date:	
26/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: 105hs, Practical: 120hs, Total: 225 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Ahmed Hassan Hussein	
8. Course Objectives	
1. providing students with basic knowledge and skills necessary in the field of public health and primary health care 2. developing student's capabilities in the field of biostatistics, epidemiology, communicable and non-communicable disease and global, regional and local health problems. 3. effective contribution to qualifying doctors capable of meeting the preventive, therapeutic and Rehabilitative needs of society. 4. Training students on the principles of scientific research and supervising their implementation of scientific and health research in various domains. 5. Conducting medical research and providing the necessary advice to researchers 6. supports, assist and evaluate the procedures for implementing the family medicine	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Introduction to Behavioral Science and Its Importance	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
2	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Concept of Human Behavior	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Psychological and Social Development Through Life stages	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	theories of Development Freud, Piaget, Erikson	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Personality: Definition Theories, and Classification	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Genetic and Environmental Factors	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Learning and Behavior Modification	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Motivation and Human Behavior	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Emotions and Coping with Psychological Stress	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
10	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Perception, Thinking, and Decision-Making	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	• Health Behavior and Illness Behavior	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Treatment Compliance and Factors Affecting Adherence	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Doctor–Patient Interacti Concept and Importance	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Effective Communicatio Skills with Patients and Families	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams Evaluations

				Team-based learning presentation) Discussion Problem solving	
15	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Building Trust and the Therapeutic Relationship	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
16	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Stress Among Medical Students and Doctors	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
17	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Adjustment to]Chronic Illness and Suffering	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
18	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Social Factors in Health and Disease	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	4	7A/6A/8A	-	Lectures (Interactive)	Midterm exams

		6B/11B/17B/19B 3C/ 4C/ 5C	The Role of Family, Society, and Culture in Health Behavior	OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams Evaluations
20	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Aggressive and Violent Behavior	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
21	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Common Behavioral Disorder	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
22	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Psychosomatic Medicine – Mind–Body Interaction	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
23	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Emotional Intelligence and Its Role in Medical Practice	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

24	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Medical Ethics and Professional Behavior	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
25	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Confidentiality, Respect Empathy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
26	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Dealing with the Difficu Patient and Critical Situation	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
27	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Communication with Children, Elderly, and Special Needs Patients	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
28	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Teamwork and Interpersonal Relations Healthcare Settings	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation)	Midterm exams Practical exam Final exams Evaluations

				Discussion Problem solving	
29	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Case Studies in Medical Behavioral Science	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Comprehensive Review Applied Behavi Concepts	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Barbara Fadem. <i>Behavioral Science in Medicine</i> , 3rd Edition. Wolters Kluwer / Lippincott Williams & Wilkins, 2020.
Main references (sources)	Control of communicable diseases Manual (CCDM)
Recommended books and references (scientific journals, reports...)	University lectures note (Iraq, local curricula)
Electronic References, Websites	https://www.health.harvard.edu

Republic of Iraq
Ministry of Higher Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine



Al-Ayen Iraq University
College of Medicine
Quality Assurance Unit
Course Description
Clinical Biochemistry
2025-2026

1. Course Name:	
Clinical chemistry	
2. Course Code:	
3. Semester / Year:	
Second level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
theoretical :90 , Practical: 60 , total 150	
7. Course administrator's name (mention all, if more than one name)	
Name: Naeem Saleh alzaidy Email: naeemsaleh76@gmail.com	
8. Course Objectives	
Course Objectives	Striving to prepare doctors with high scientific, skill and professional qualifications, as well as developing research capacity in medical aspects and various fields of clinical biochemistry in a way that serves society.

	The program also aims to introduce modern educational methods and employ advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities. Encouraging scientific research and employing it to contribute to solving community health and social problems.
9. Teaching and Learning Strategies	
Strategy	- Giving theoretical lectures using available display technologies (projectors and smart boards). - Conduct practical experiments and learn laboratory skills to cover the practical aspect of the subject.

10. Course Structure

The week	Hours	Learning outcomes	Name of the unit/or topic	Learning method	Evaluation method
1.	3	A1/A2 B4/B5 C4/C5	Digestion and Absorption	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
2.	3	A1/A2 B4/B5 C4/C5	Carbohydrates metabolism Glycolysis, The tricarboxylic acid cycle,	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
3.	3	A1/A2 B4/B5 C4/C5	Pentose phosphate pathway ,Glycogen metabolism	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
4.	3	A1/A2 B4/B5 C4/C5	Hyperglycemia and diabetes mellitus Hypoglycaemia	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation)	Medterm exams Practical exam Final exams evaluation

				Discussion problem	
5.	3	A1/A2 B4/B5 C4/C5	Lipids metabolism	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
6.	3	A1/A2 B4/B5 C4/C5	Triglycerides & phospholipids	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
7.	3	A1/A2 B4/B5 C4/C5	Cholesterol & prostaglandin	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
8.	3	A1/A2 B4/B5 C4/C5	Disorders of lipid metabolism	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation

9.	3	A1/A2 B4/B5 C4/C5	Amino acids, proteins metabolism	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
10.	3	A1/A2 B4/B5 C4/C5	Amino acids, proteins metabolism	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
11.	3	A1/A2 B4/B5 C4/C5	Biological oxidation	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
12.	3	A1/A2 B4/B5 C4/C5	Diagnostic Enzymology	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
13.	3	A1/A2 B4/B5	Vitamins fat soluble	Lectures (Interactive) Online	Medterm exams

		C4/C5		Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Practical exam Final exams evaluation
14.	3	A1/A2 B4/B5 C4/C5	Vitamins water soluble	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
15.	3	A1/A2 B4/B5 C4/C5	Hormones General principles	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
16.	3	A1/A2 B4/B5 C4/C5	steroid hormones	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
17.	3	A1/A2 B4/B5 C4/C5	adrenal cortex	Lectures (Interactive) Online Lectures (Interactive) .	Medterm exams Practical exam

				Ream-based learning (presentation) Discussion problem	Final exams evaluation
18.	3	A1/A2 B4/B5 C4/C5	thyroid function	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
19.	3	A1/A2 B4/B5 C4/C5	Cell membrane and cells communications	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
20.	3	A1/A2 B4/B5 C4/C5	Purines and pyrimidine metabolism	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
21.	3	A1/A2 B4/B5 C4/C5	Nucliec acids metabolism DNA replication, & DNA repair	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation)	Medterm exams Practical exam Final exams evaluation

				Discussion problem	
22.	3	A1/A2 B4/B5 C4/C5	RNA Synthesis, Processing, & Modification Genetic Code	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
23.	3	A1/A2 B4/B5 C4/C5	Nucliec acids metabolism Genetic Code	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
24.	3	A1/A2 B4/B5 C4/C5	Renal function	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
25.	3	A1/A2 B4/B5 C4/C5	Liver function	Lectures (Interactive) Online Lectures (Interactive) Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation

26.	3	A1/A2 B4/B5 C4/C5	Minerals metabolism (Macro elements)	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
27.	3	A1/A2 B4/B5 C4/C5	Minerals metabolism (Micro elements)	Lectures (Interactive) Online Lectures (Interactive) Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
28.	3	A1/A2 B4/B5 C4/C5	Acid - base balance	Lectures (Interactive) Online Lectures (Interactive) . Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
29.	3	A1/A2 B4/B5 C4/C5	Cancer chemistry,	Lectures (Interactive) Online Lectures (Interactive) Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
30.	3	A1/A2 B4/B5 C4/C5	Pregnancy and infertility	Lectures (Interactive) Online Lectures (Interactive)	Medterm exams Practical exam

				Ream-based learning (presentation) Discussion problem	Final exams evaluation
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11.Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc	
12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Harper textbook of biochemistry
Main references (sources)	Harper textbook of biochemistry
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	University educational platform

Republic of Iraq
Ministry of Higher Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine



Al-Ayen Iraq University
College of Medicine
Quality Assurance Unit
Course Description
Clinical chemistry
2025-2026

1. Course Name:	
Clinical chemistry	
2. Course Code:	
3. Semester / Year:	
First level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
theoretical :60 , Practical: 60 , total :120	
7. Course administrator's name (mention all, if more than one name)	
Name: Naeem Saleh alzaidy Email: naeemsaleh76@gmail.com	
8. Course Objectives	
Course Objectives	Striving to prepare doctors with high scientific, skill and professional qualifications, as well as developing research capacity in medical aspects and various fields of clinical biochemistry in a way that serves society.

	The program also aims to introduce modern educational methods and employ advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities. Encouraging scientific research and employing it to contribute to solving community health and social problems.
9. Teaching and Learning Strategies	
Strategy	- Giving theoretical lectures using available display technologies (projectors and smart boards). - Conduct practical experiments and learn laboratory skills to cover the practical aspect of the subject.

10. Course Structure

The week	Hours	Learning outcomes	Name of the unit/or topic	Learning method	Evaluation method
1.	3	A1/A2 B4/B5 C4/C5	Chemistry of Carbohydrates	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
2.	3	A1/A2 B4/B5 C4/C5		Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
3.	3	A1/A2 B4/B5 C4/C5	Classification of Carbohydrates	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
4.	3	A1/A2 B4/B5 C4/C5	Structural Properties	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation)	Medterm exams Practical exam Final exams evaluation

				Discussion problem	
5.	3	A1/A2 B4/B5 C4/C5		Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
6.	3	A1/A2 B4/B5 C4/C5	Polysaccharides	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
7.	3	A1/A2 B4/B5 C4/C5	Lipids and their biological functions	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
8.	3	A1/A2 B4/B5 C4/C5	Classification of Lipids	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation

9.	3	A1/A2 B4/B5 C4/C5	Compound lipids phospholipids	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
10.	3	A1/A2 B4/B5 C4/C5	Derived lipids lipoproteins	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
11.	3	A1/A2 B4/B5 C4/C5	Type of Amino acids	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
12.	3	A1/A2 B4/B5 C4/C5	behavior of amino acids at acidic and basic medium	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation

13.	3	A1/A2/A5 B4/B5B/17 C4/C5	The ionization reactions of ionizable groups	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
14.	3	A1/A2 B4/B5 C4/C5	Protein and four structures	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
15.	3	A1/A2 B4/B5 C4/C5	Enzymes : Define the terms	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
16.	3	A1/A2 B4/B5 C4/C5	Classification of enzymes	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation

17.	3	A1/A2 B4/B5 C4/C5	The factors enzyme dependency	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
18.	3	A1/A2 B4/B5 C4/C5		Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
19.	3	A1/A2 B4/B5 C4/C5	The mechanism of the binding site of the inhibitor	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
20.	3	A1/A2 B4/B5 C4/C5	Reactions of enzymes	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
21.	3	A1/A2 B4/B5	Nucleic acids	Lectures (Interactive) Online	Medterm exams

		C4/C5		Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Practical exam Final exams evaluation
22.	3	A1/A2 B4/B5 C4/C5	Nucleic acids	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
23.	3	A1/A2 B4/B5 C4/C5	Nucleic acids	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
24.	3	A1/A2 B4/B5 C4/C5	Organic chemistry	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
25.	3	A1/A2 B4/B5 C4/C5	Reactions of hydrocarbons	Lectures (Interactive) Online Lectures (Interactive) Role play	Medterm exams Practical exam

				Ream-based learning (presentation) Discussion problem	Final exams evaluation
26.	3	A1/A2 B4/B5 C4/C5	alcohols, phenols, and ethers	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
27.	3	A1/A2 B4/B5 C4/C5	Preparation of aromatic compounds as drugs	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
28.	3	A1/A2 B4/B5 C4/C5	oxidation of a Phenols, ethers	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation
29.	3	A1/A2 B4/B5 C4/C5	Aliphatic amines and alkaloids	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation)	Medterm exams Practical exam Final exams evaluation

				Discussion problem	
30.	3	A1/A2 B4/B5 C4/C5	Organic acids of medical Importance, anhydrides. esters . amides	Lectures (Interactive) Online Lectures (Interactive) Role play Ream-based learning (presentation) Discussion problem	Medterm exams Practical exam Final exams evaluation

11.Course Evaluation	
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc	
12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Harper textbook of biochemistry
Main references (sources)	Harper textbook of biochemistry
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	University educational platform

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
Community Medicine
2025-2026**

1. Course Name:	
Community Medicine	
2. Course Code:	
3. Semester / Year:	
Fourth year	
4. Description Preparation Date:	
26/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: 105hs, Practical: 120hs, Total: 225 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr Haider M. Mehdi Dr. Zainab M. Ali Zrrszrrs0@gmail.com	
8. Course Objectives	
1. providing students with basic knowledge and skills necessary in the field of public health and primary health care 2. developing student's capabilities in the field of biostatistics, epidemiology, communicable and non-communicable disease and global, regional and local health problems. 3. effective contribution to qualifying doctors capable of meeting the preventive, therapeutic and Rehabilitative needs of society. 4. Training students on the principles of scientific research and supervising their implementation of scientific and health research in various domains. 5. Conducting medical research and providing the necessary advice to researchers 6. supports, assist and evaluate the procedures for implementing the family medicine	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Introduction to Descriptive epidemiological Concepts, methods & statistics	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
2	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Types & sources of Epidemiological data	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Relationship of Incidence & prevalence	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Epidemiological Studies -cross-section S -Cohort S -case-control S	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Communicable D -Diarrheal D. -Bacterial causes Diarrhea. -	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Viral cause Diarrhea.	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Protozoal cause Diarrhea.	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Air-borne Inf. Measles & rubell Whooping cough & Mumps -Chicken box	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Diphtheria- -corona V. -Meningitis -	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams

				Team-based learning presentation) Discussion Problem solving	evaluations
10	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Malaria Schistosomiasis Rabies Anthrax	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Pin worm Ascaris	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	T.B Influenza V.	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Non-communical Diseases H.T D.M	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

14	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Rh fever Cancer COPD	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
15	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Review	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
16	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Environmental H -Reproductive H	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
17	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Nosocomial Inf. -Obesity	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
18	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Occupational H -Inter national Travel & health	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
19	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Geriatric health care -PHC	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
20	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Periodic H examination in Adult	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
21	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Introduction to H.C -Evaluation of H.C -Utilization of H.C	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
22	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Maternal & Child Health	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
23	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Maternal & Child Health	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
24	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Screening	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
25	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Expanded Program of Immunization	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
26	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Epidemiology Of trauma -School H -Health care Administration	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
27	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	-Preventive Services& CV risk	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
28	4	7A/6A/8A 6B/11B/17B/19B	-Principle of Family medicin	Lectures (Interactive) OnlineLectures (Interacti	Midterm exams Practical exam

		3C/ 4C/ 5C	-Communication skill	Role play Team-based learning presentation) Discussion Problem solving	Final exams Evaluations
29	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Review	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Review	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-Text book in public health & preventive medicine -General medical & public health books
Main references (sources)	Control of communicable diseases Manual (CCDM)
Recommended books and references (scientific journals, reports...)	University lectures note (Iraq, local curricula)
Electronic References, Websites	https://www.health.harvard.edu

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
Community Medicine
2025-2026**

1. Course Name:	
Community Medicine	
2. Course Code:	
3. Semester / Year:	
Third year	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: 30hs, Practical: 30hs, Total: 60 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr Haider M. Mehdi Dr. Zainab M. Ali Zrrszrrs0@gmail.com	
8. Course Objectives	
1. providing students with basic knowledge and skills necessary in the field of public health and primary health care 2. developing student's capabilities in the field of biostatistics, epidemiology, communicable and non-communicable disease and global, regional and local health problems. 3. effective contribution to qualifying doctors capable of meeting the preventive, therapeutic and Rehabilitative needs of society. 4. Training students on the principles of scientific research and supervising their implementation of scientific and health research in various domains. 5. Conducting medical research and providing the necessary advice to researchers 6. supports, assist and evaluate the procedures for implementing the family medicine	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Introduction to Medical statistics	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Nutrition and Health	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Nutrients	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Statistics	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Nutrients	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Descriptive Statistics	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Macro nutrients	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Variations	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Micro nutrient	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
10	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Sampling	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Body weight	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Applications of probability distribution	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Nutritional assessment	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Normal distribution curve	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
15	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Growth charts	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Categorical data analysis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Growth analysis		Midterm exams Practical exam Final exams evaluations
18	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Concept of community diagnosis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Concept of Community Diagnosis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
20	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Obesity		
21	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Management of obesity	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Hypothesis testing (test of significance)	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Errors in Hypothesis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
24	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Surgical management of obesity	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Test of significance	Lectures (Interactive) OnlineLectures (Interacti	Midterm exams Practical exam

				Role play Team-based learning presentation) Discussion Problem solving	Final exams evaluations
26	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Test of significance	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Enteral nutrition	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Parenteral nutrition	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Chi-squared test	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

30	2	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	revision	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
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11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Daniel text book
Main references (sources)	
Recommended books and references (scientific journals, reports...)	British journal of Nutrition American journal of clinical nutrition
Electronic References, Websites	https://www.health.harvard.edu

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



Al-Ayen Iraqi University College of medicine Quality Assurance Unit

Computer

2025-2026

Course Description Form

1. Course Name:	
Computer	
2. Course Code:	
3. Semester / Year:	
Semester (1) / second level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 60, Practical: 30, Total: 90	
7. Course administrator's name (mention all, if more than one name)	
Name: Mustafa Hassan Email: mustafahasan94535@gmail.com	
8. Course Objectives	
1. The goal of the branch is to strive to prepare doctor high scientific, skill and 2. professional qualifications, as well as to develop research the medical and clinical aspects to serve the community 3. apacity rThe program also aims to introduce n educational methods and add advanced information technologies and means of explanation t the teaching staff capable of keeping pace with development and mod and its goal is to develop scientific and professional capabilitiesegarding comput 4. Encouraging scientific research and employing contribute to solving community 5. health and social problems by using computer H seminars, scientific conferences and seminars to c health and Scientific issues for the country to discuss use of computer medicine	
9. Teaching and Learning Strategies	

Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Team-based learning (group discussion, presentation) - Discussion - Problem solving
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	C3/C6	A historical introduction to the development of the computer, calculator generations, and areas of use	Lectures (Interactive) Online Lectures (Interactive) . Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	3	C3/C6	Physical components of the calculator, parts attached to the motherboard	Lectures (Interactive) OnlineLectures (Interactive) . Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	3	C3/C6	Hard disk, CD floppy, types cards	Lectures (Interactive) OnlineLectures (Interactive) . Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	3	C3/C6	Accessory parts	Lectures (Interactive)	Midterm exams

			cases, ty screens, types printers pes	OnlineLectures (Interactive) . Team-based learning presentation) Discussion Problem solving	Practical exam Final exams evaluations
5	3	C3/C6	Operating systems, Windows and seventh edition	Lectures (Interactive) OnlineLectures (Interactive) . Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	3	C3/C6	How to open the program, components of the main window, desktop properties	Lectures (Interactive) OnlineLectures (Interactive) . Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	3	C3/C6	Start menu, components computer, document	Lectures (Interactive) OnlineLectures (Interactive) . Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	C3/C6	Control panel components	Lectures (Interactive) OnlineLectures (Interactive) . Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
9	3	C3/C6	How to print, how to use accessible options, change the calculator language	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
10	2	C3/C6	Deleting programs, deleting files, recovering files, creating and cloning files, changing names	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	3	C3/C6	Changing the time, connecting Internet, converting the calculator into a phone, connecting the calculator to internal networks	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	C3/C6	Program list, program updates, supplements and applications	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	C3/C6	Retail assembly, surface cleaning, disks	Lectures (Interactive) OnlineLectures (Interactive) ·	Midterm exams Practical exam Final exams

				Team-based learning presentation) Discussion Problem solving	evaluations
14	3	C3/C6	Tracer and how use it, Windows Explorer, restoring specific system format to a previous date	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	3	C3/C6	Word processing using Word, Windows components	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Open and close the program, open, delete and save files, change the file name	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	3	C3/C6	Create a new document using the default template, how to edit texts		Midterm exams Practical exam Final exams evaluations
18	3	C3/C6	Entering symbols, selecting texts, dealing with menus, and the formatting menu	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
19	3	C3/C6	Entering symbols, selecting texts, dealing with menus, and the formatting menu	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	3	C3/C6	Changing font size and type, numbering, backgrounds, line spacing and borders, shading, applying styles, inserting images		
21	3	C3/C6	Creating tables, ways to create them, entering data into the table, editing the table	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	3	C3/C6	Charts, inserting chart, working v calculations	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	3	C3/C6	Microsoft PowerPoint, open and closing program, window components,	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
24	3	C3/C6	Opening, deleting and saving files, changing the file name, working with slides, preparing the slide	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	3	C3/C6	Using ready-made templates, enter texts into the slides displaying the slides	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26	3	C3/C6	Arrange, delete, insert slides, graphic shapes	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	3	C3/C6	Open and close program	Lectures (Interactive) OnlineLectures (Interactive) · Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	3	C3/C6	Inserting films in the microdisplay	Lectures (Interactive) OnlineLectures (Interactive) ·	Midterm exams Practical exam Final exams

				Team-based learning presentation) Discussion Problem solving	evaluations
29	3	C3/C6	Moving elements the slide, mov slides,	Lectures (Interactive) OnlineLectures (Interactiv . Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	3	C3/C6	Start menu, components computer, document	Lectures (Interactive) OnlineLectures (Interactiv Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	University educational platform

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**

3



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit**

Foundation of medicine

2025-2026

1. Course Name:					
Foundation of medicine					
2. Course Code:					
3. Semester / Year:					
First year					
4. Description Preparation Date:					
1/9/2025					
5. Available Attendance Forms:					
Full-time and official attendance hours					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theoretical : 30 hours					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Haider M. Mahdi MSC Zainab M. Ali Zrrszrrs0@gmail.com					
8. Course Objectives					
1. The goal of the branch is to strive to prepare doctors with high scientific, skill and professional qualifications, as well as to develop research capacity introduce students to the basic concept of medicine and how to develop it since ancient time in addition to developing their skills for how to communicate between doctors and patient medic ethically					
9. Teaching and Learning Strategies					
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method

1	1	6A/ 7A 7B/14B/15B 1C/2c/3C/4C/5C/ 6C	Foundation of medicine	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	1		Pre- Islamic eras	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	1		Pre- Islamic eras	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	1		Pre- Islamic eras	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
5	1		Islamic Eras	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
6	1		-Islamic Eras	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	1		Health concept	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Medical Communication	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Medical Communication	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
10	1	2A/6A/8A	Medical ethics	Lectures (Interactive)	Midterm exams

		6B/14B/19B 3C, 4C, 5C		OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams evaluations
11	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Environmental Health	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Environmental Health	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Physicians	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Practice of family medicine	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

15	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Complementary &Alternative Medicine	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	PHC	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Doctor and humanity		Midterm exams Practical exam Final exams evaluations
18	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Doctor and humanity	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Doctor responsibility	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	1	2A/6A/8A 6B/14B/19B	Doctor responsibility		

		3C, 4C, 5C			
21	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Doctor responsibility	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Medical secret	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Laws and doctor	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
24	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Laws and doctor	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Laws and doctor	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
26	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Public health & ecology	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Anesthesia	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Discussing	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Discussing	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Exam	Lectures (Interactive) Online Lectures (Interactive) Role play	Midterm exams Practical exam Final exams

				Team-based learning presentation) Discussion Problem solving	evaluations
11. Course Evaluation					
Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports etc					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)					
Main references (sources)					
Recommended books and references (scientific journals, reports...)			American journal of clinical nutrition European journal of clinical nutrition		
Electronic References, Websites			https://www.WHO.int https://www.health.harvard.edu https://www.nutrition.gov		

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
Embryology
2025-2026**

1. Course Name:	
Embryology (1)	
2. Course Code:	
3. Semester / Year:	
Semester (1) / second level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 30 , Total: 30	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Abduljabbar yassin	
8. Course Objectives	
Striving to prepare doctors with high scientific, skill and professional qualifications, as well as developing research capacity in medical aspects and various fields of Embryology in a way that serves society. The program also aims to introduce modern educational methods and employ advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities. Encouraging scientific research and employing it to contribute to solving community health and social problems.	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group discussion, presentation) - Discussion - Problem solving

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10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	A 1 /A2/ B4/B5/ C4/ C5	Cell division	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	1	A 1 /A2/ B4/B5/ C4/ C5	Chromosomal abnormalities-2 hours	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	1	A 1 /A2/ B4/B5/ C4/ C5	spermatogenesis	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	1	A 1 /A2/ B4/B5/ C4/ C5	oogenesis	Lectures (Interactive) OnlineLectures (Interactive) Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
5	1	A 1 /A2/ B4/B5/ C4/ C5	Ovarian cycle	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	1	A 1 /A2/ B4/B5/ C4/ C5	Fertilization	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	1	A 1 /A2/ B4/B5/ C4/ C5	Cleavage, blastocyst formation and implantation	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	1	A 1 /A2/ B4/B5/ C4/ C5	Second Week of Development: Bilaminar Germ D	Lectures (Interactive) OnlineLectures (Interactive) Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
9	1	A 1 /A2/ B4/B5/ C4/ C5	Third week of development: Trilaminar Ger Disc	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
10	1	A 1 /A2/ B4/B5/ C4/ C5	Third to eighth weeks the embryonic period part-1	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	1	A 1 /A2/ B4/B5/ C4/ C5	Third to eighth weeks : the embryonic per part- 2	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	1	A 1 /A2/ B4/B5/ C4/ C5	Third Month to Birth: the fetus and placenta / part1	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
13	1	A 1 /A2/ B4/B5/ C4/ C5	Third Month to Birth: the Fetus and Placenta/Part-2	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	1	A 1 /A2/ B4/B5/ C4/ C5	Third Month to Birth: the Fetus and Placenta/Part-3	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	1	A 1 /A2/ B4/B5/ C4/ C5	Birth defects part -1	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	1	A 1 /A2/ B4/B5/ C4/ C5	Birth defects part -2	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

17	1	A 1 /A2/ B4/B5/ C4/ C5	Prenatal diagnosis		Midterm exams Practical exam Final exams evaluations
18	1	A 1 /A2/ B4/B5/ C4/ C5	Respiratory system	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	1	A 1 /A2/ B4/B5/ C4/ C5	Digestive system part-	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	1	A 1 /A2/ B4/B5/ C4/ C5	Digestive system part-	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
21	1	A 1 /A2/ B4/B5/ C4/ C5	Cardiovascular system part-1	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
22	1	A 1 /A2/ B4/B5/ C4/ C5	Cardiovascular system part-2	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	1	A 1 /A2/ B4/B5/ C4/ C5	Urinary system	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
24	1	A 1 /A2/ B4/B5/ C4/ C5	Development of the Limbs	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	1	A 1 /A2/ B4/B5/ C4/ C5	Genital system / gonad	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

26	1	A 1 /A2/ B4/B5/ C4/ C5	External genitalia	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	1	A 1 /A2/ B4/B5/ C4/ C5	Ear	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	1	A 1 /A2/ B4/B5/ C4/ C5	Eye	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29	1	A 1 /A2/ B4/B5/ C4/ C5	Integumentary system	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	1		Revision		

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Longman textbook of embryology
Main references (sources)	Longman textbook of embryology
Recommended books and references (scientific journals, reports...)	Before we are born
Electronic References, Websites	University educational platform

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
Forensic medicine
2025-2026**

1. Course Name:	
Forensic Medicine	
2. Course Code:	
3. Semester / Year:	
Fourth year	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: 105hs, Practical: 120hs, Total: 225 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Abdul Hussein Al Jaber	
8. Course Objectives	
1. providing students with basic knowledge and skills necessary in the field of public health and primary health care 2. developing student's capabilities in the field of biostatistics, epidemiology, communicable and non-communicable disease and global, regional and local health problems. 3. effective contribution to qualifying doctors capable of meeting the preventive, therapeutic and Rehabilitative needs of society. 4. Training students on the principles of scientific research and supervising their implementation of scientific and health research in various domains. 5. Conducting medical research and providing the necessary advice to researchers 6. supports, assist and evaluate the procedures for implementing the family medicine	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group discussion, presentation) - Discussion - Problem solving
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Introduction to Forensic Medicine	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
2	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Legal and Ethical Aspects	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Forensic Pathology – Part 1	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Forensic Pathology – Part 2	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Cause of Death -	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Manner of Death	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Death Certification and Legal Documentation	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Injuries and Wounds – Part 1	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Injuries and Wounds – 1 2	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
10	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Mechanical Injuries	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Asphyxial Deaths	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Forensic Toxicology – I 1	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Forensic Toxicology – II 2	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Burns	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams Evaluations

				Team-based learning presentation) Discussion Problem solving	
15	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Thermal Injuries	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
16	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Sudden Death	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
17	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Unexpected Deaths	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
18	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Forensic Anthropology Part 1	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

19	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Forensic Anthropology Part 2	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
20	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Forensic Serology – Part 1	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
21	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- DNA Analysis – Part 1	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
22	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Forensic Psychiatry – Part 1	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
23	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Forensic Psychiatry – Part 2	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
24	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Medico-Legal Documentation – Par1	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
25	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Medico-Legal Documentation – Par2	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
26	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	General Review – P	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
27	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- General Review – Part 2	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
28	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- General Review – Part 3	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning	Midterm exams Practical exam Final exams Evaluations

			-	presentation) Discussion Problem solving	
29	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Review	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Revision	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Knight, B. <i>Forensic Pathology</i> , 4th Edition. CRC Press / Taylor & Francis, 2016.
Main references (sources)	
Recommended books and references (scientific journals, reports...)	University lectures note (Iraq, local curricula)
Electronic References, Websites	https://www.health.harvard.edu

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
Obstetrics and Gynecology
2025-2026**

1. Course Name:	
Obstetrics and Gynecology	
2. Course Code:	
3. Semester / Year:	
Fourth year	
4. Description Preparation Date:	
26/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: 105hs, Practical: 120hs, Total: 225 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr Azdehar Nasif	
8. Course Objectives	
1. providing students with basic knowledge and skills necessary in the field of public health and primary health care 2. developing student's capabilities in the field of biostatistics, epidemiology, communicable and non-communicable disease and global, regional and local health problems. 3. effective contribution to qualifying doctors capable of meeting the preventive, therapeutic and Rehabilitative needs of society. 4. Training students on the principles of scientific research and supervising their implementation of scientific and health research in various domains. 5. Conducting medical research and providing the necessary advice to researchers 6. supports, assist and evaluate the procedures for implementing the family medicine	
9. Teaching and Learning Strategies	
Strategy	Blended learning ● Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Physiological changes in pregnancy	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
2	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Fertilization and implantations Fetal development and growth	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Placenta and amniotic fluid - Prenatal diagnosis	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Antenatal care	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Anatomy of female pelvis and fetal skull - Lobar, physiology of lobar and mechanism of lobar	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Management of lobar	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Abnormal lobar and dystochia Mal presentation	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Mal presentation - Mal positions	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Cord prolapsed and cord presentations Partogram and assessment of fetal wellbeing	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
10	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Analgesia and anesthesia in lobar Instrumental delivery and episiotomy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	• Induction of lobar Caesarian section Induction of lobar Caesarian section	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Vomiting in pregnancy Abdominal pain in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Ante partum hemorrhag	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Preterm labor Premature rupture of membrane	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams Evaluations

				Team-based learning presentation) Discussion Problem solving	
15	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Multiple pregnancy Oligohydramnios and polyhydramnios	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
16	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Intrauterine growth restriction Intrauterine death	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
17	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- RH isoimmunization i pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
18	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Postterm pregnancy Postpartum hemorrhag	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	4	7A/6A/8A	-	Lectures (Interactive)	Midterm exams

		6B/11B/17B/19B 3C/ 4C/ 5C	Abnormalities of third stage of labor	OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams Evaluations
20	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Gestational hypertens disorders	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
21	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Diabetes in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
22	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Anemia in pregnancy Liver disease in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
23	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Thyroid disease in pregnancy Cardiac disease in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

24	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Renal disease in pregnancy Neurological disease in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
25	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Autoimmune disease in pregnancy Thromboembolic disorder in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
26	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Bleeding disorders in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
27	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Second trimester miscarriage and cervical incompetence Obstetrics emergency	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
28	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Obstetrics shock U/S in obstetrics	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation)	Midterm exams Practical exam Final exams Evaluations

				Discussion Problem solving	
29	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Maternal mortality Medication in pregnancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Puerperium and Puerper complication	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Williams Obstetrics, 25th Edition – Cunningham FG, Leveno KJ, Bloom SL, et al. McGraw-Hill Education, 2018.
Main references (sources)	Comprehensive Gynecology, 7th Edition – Le GM, et Elsevier, 2019.
Recommended books and references (scientific journals, reports...)	University lectures note (Iraq, local curricula)
Electronic References, Websites	https://www.health.harvard.edu

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description**

Histology

2025-2026

1. Course Name:	
Histology (1)	
2. Course Code:	
3. Semester / Year:	
Semester (1) / second level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 60 , Practical: 60 , Total: 120	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Hassan Sarhan Dr. Ghassan Jabbar	
8. Course Objectives	
Striving to prepare doctors with high scientific, skill and professional qualifications, as well as developing research capacity in medical aspects and various fields of histology in a way that serves society. The program also aims to introduce modern educational methods and employ advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities. Encouraging scientific research and employing it to contribute to solving community health and social problems.	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group discussion, presentation) - Discussion - Problem solving

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A 1 /A2/ B4/B5/ C4/ C5	Introduction Basic histology	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	2	A 1 /A2/ B4/B5/ C4/ C5	Basic histology	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	2	A 1 /A2/ B4/B5/ C4/ C5	Basic histology	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A2/ B4/B5/ C4/ C5	Basic histology	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	2	A 1 /A2/ B4/B5/ C4/ C5	Circulatory system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	2	A 1 /A2/ B4/B5/ C4/ C5	Circulatory system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	2	A 1 /A2/ B4/B5/ C4/ C5	Lymphoid system.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	A 1 /A2/ B4/B5/ C4/ C5	Lymphoid system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	2	A 1 /A2/ B4/B5/ C4/ C5	Digestive syste	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
10	2	A 1 /A2/ B4/B5/ C4/ C5	Digestive system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	A 1 /A2/ B4/B5/ C4/ C5	Digestive syste	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A2/ B4/B5/ C4/ C5	Digestive syste	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	A 1 /A2/ B4/B5/ C4/ C5	Respiratory system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	2	A 1 /A2/ B4/B5/ C4/ C5	Respiratory system	Lectures (Interactive) OnlineLectures (Interact	Midterm exams Practical exam

				Role play Team-based learning presentation) Discussion Problem solving	Final exams evaluations
15	2	A 1 /A2/ B4/B5/ C4/ C5	Respiratory system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	2	A 1 /A2/ B4/B5/ C4/ C5	Skin & appendages.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	2	A 1 /A2/ B4/B5/ C4/ C5	Skin & appendages		Midterm exams Practical exam Final exams evaluations
18	2	A 1 /A2/ B4/B5/ C4/ C5	Urinary system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	2	A 1 /A2/ B4/B5/ C4/ C5	Urinary system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
20	2	A 1 /A2/ B4/B5/ C4/ C5	Endocrine system.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
21	2	A 1 /A2/ B4/B5/ C4/ C5	Endocrine system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	2	A 1 /A2/ B4/B5/ C4/ C5	Male reproductive system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	2	A 1 /A2/ B4/B5/ C4/ C5	Female reproductive system	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
24	2	A 1 /A2/ B4/B5/ C4/ C5	Nervous system.	Lectures (Interactive) OnlineLectures (Interact	Midterm exams Practical exam

				Role play Team-based learning presentation) Discussion Problem solving	Final exams evaluations
25	2	A 1 /A2/ B4/B5/ C4/ C5	Nervous system.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26	2	A 1 /A2/ B4/B5/ C4/ C5	Nervous system.	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	2	A 1 /A2/ B4/B5/ C4/ C5	Eye	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	2	A 1 /A2/ B4/B5/ C4/ C5	Ear	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

29	2	A 1 /A2/ B4/B5/ C4/ C5	Examination	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	2	A 1 /A2/ B4/B5/ C4/ C5	Examination	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Janquera Basic histology (text and atlas)
Main references (sources)	Janquera Basic histology (text and atlas)
Recommended books and references (scientific journals, reports...)	Human atlas of histology
Electronic References, Websites	University educational platform

**Republic of Iraq
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**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit**

Course Description

Internal medicine

2025-2026

1. Course Name:	
Internal medicine	
2. Course Code:	
3. Semester / Year:	
Fourth level annual	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Mandatory	
6. Number of Credit Hours (Total) / Number of Units (Total)	
2 theoretical hours + 2 practical hours per week / Third Stage	
7. Course administrator's name (mention all, if more than one name)	
Name: Mudher Zaki Hadab Email: Mudher.Zaki@alayer.edu.iq	
8. Course Objectives	
Course Objectives	Striving to prepare doctors with high scientific, skill and professional qualifications as well as developing research capacity in medical aspects and various fields of medicine in a way that serves society. The program also aims to introduce modern educational methods and employ advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities. Encouraging scientific research and employing it to contribute to solving community health and social problems.
9. Teaching and Learning Strategies	
Strategy	A- Cognitive objectives A1- Providing students with appropriate information and means to identify the clinical health problems that society suffers from, and to find effective solutions in the best ways. A2- Introducing students to cognitive and moral basics. A3- Introducing students to the causes of diseases, methods of treating and preventing them, and performing clinical microscopic medical analyzes to diagnose them and find the necessary treatment for them. A4- Directing the research of medical students to diagnosing and finding solutions to the health problems prevailing in society A5- Providing students with information that deals with the latest developments in the field of diagnosis of internal medicine diseases and the latest findings of international medical research.

	A6- Striving to prepare doctors with high capabilities in the field of scientific research, consistent with the health problems that society suffers from -The program's skill objectives B1 - Follow up on clinical cases related to internal medicine. B2 - Dealing with patients correctly using approved sterilization methods. B3 - Diagnosing and treating medical conditions. B4 - Understanding how to prevent diseases ☐ Giving theoretical lectures using modern methods ☐ Conduct field research, write down its results, and evaluate it ☐ Study of pathological cases ☐ Giving instructions and directives regarding the behaviors and goals of the medical profession. ☐ Field study of practical methods for dealing with patients at work sites. ☐ Showing educational films and videos related to emotional and moral goals.
Evaluation Methods	• Evaluating the student through his training in hospitals and health centers • Evaluating the student while conducting field research as part of the practical evaluation • The theoretical and practical exam for the first and second semesters • Daily or quick theoretical and practical exams • Mid-year theoretical and practical exams • End-of-year theoretical and practical exams • Research evaluation
	D - Transferable general and qualifying skills (other skills related to employability and personal development). D1- Using the Internet to search for medical topics D2- Using electronic books to develop lectures D3- Using interactive teaching methods D4- Using PowerPoint to present scientific lectures D5- Writing a report and knowing how to interpret the results. D6- Acquiring laboratory management skills D7- Learn how to deal with co-workers and patients

10. Course Structure					
Evaluation method	Teaching method	Name of the unit/or topic	Learning outcomes	Hours	The week

Questions at the end of the theoretical lecture + a short exam at the end of the practical lecture	Theoretical lectures using PowerPoint + practical presentations		Pass to 4th stage.	2 hours theoretical 2 hours' practical Weekly	
		common signs and symptoms cardiovascular system	A1,A3,B1		first
		Respiratory system	A2 A3 B1		second
		Gastrointestinal system,	A2 A3 B1		Third
		genitourinary system	A2 A3 B1 B4		fourth
		central nervous system	A2 A3 B1 B4		Fifth
		Clinical immunology Functional anatomy & investigations of immune system,	A2 A3 B1 B4		Sixth
		Innate & adaptive immune system,	A2 A3 B1 B4		Seventh
		Allergic disorders, Anaphylaxis & angioedema	A2 A3 B1 B4		eighth
		Inflammatory response, Immune deficiency	A2 A3 B1 B4		Ninth
		Autoimmune disorders , , Transplantation & graft rejection	A2 A3 B1 B4		The tenth
		Water and electrolyte disturbances Normal physiology, function of the nephron and water and electrolytes absorption	A2 A3 B1 B4		eleventh
		diuretics(classifications , side effects and diuretic resistance,	A2 A3 B1 B4		twelveth
		Sodium disorders Potassium disorders, calcium disorders, Magnesium and	A2 A3 B1 B4		Thirteenth h

		phosphate disorders			
		Acid base balance disorders, metabolic acidosis, Metabolic alkalosis,	A2 A3 B1 B4		fourteenth
		respiratory acidosis and respiratory alkalosis causes, clinical features, diagnosis and treatment	A2 A3 B1 B4		Fifteenth
		Clinical genetic Clinical application, classification, investigations	A2 A3 B1 B4		sixteenth
		, Autosomal disorders, X linked disorders,	A2 A3 B1 B4		seventeenth
		gene therapy	A2 A3 B1 B4		eighteenth
		Energy balance , response to under and overweight, Summery of foods containing fat, proteins and carbohydrate,	A2 A3 B1 B4		nineteenth
		Obesity, Malnutrition, Malnutrition in hospital, Disease of micronutrient (Vitamins and minerals) – Vitamin A, Vitamin D,E,K	A2 A3 B1 B4		The twentieth
		Water soluble vitamin (B1,B2,Naicine) , Vitamin B6,B12,Folic acid and Vitamin c, Mention every vitamin with the source of it and disease result from its deficiency	A2 A3 B1 B4		Twenty first
		In organic nutrient : Fluoride ,copper ,selenium ,zinc , calcium,	A2 A3 B1 B4		twenty second

		phosphate , iodine			
		, Summary about inorganic nutrient and disease caused by deficiency and excess of each one	A2 A3 B1 B4		twenty third
		Endemic and helminthic infections Presenting problems in infectious diseases,	A2 A3 B1 B4		Twenty forth
		presentations of fever, skin rash lymphadenopat hy and splenomegaly,	A2 A3 B1 B4		Twenty fifth
		Pyrexia of unknown etiology, Bacteremia and septicemia,	A2 A3 B1 B4		Twenty sixth
		Antimicrobial therapy, Antibiotics, antiviral, antifungal and antihelmenth. Amoebiasis, Giardiasis,	A2 A3 B1 B4		Twenty seventh
		Malaria, Visceral Leishmaniosis, Cutaneous and mucosal Leishmaniosis, African and American Trypanosomiasi s	A2 A3 B1 B4		Twenty eighth
		Toxoplasmosis, Infections caused by helminthes, Classifications,	A2 A3 B1 B4		Twenty ninth
		Ancylostomiasi s, pathology, clinical features, diagnosis and treatment, Ascariasis and Enterobiasis, clinical features, diagnosis and treatment	A2 A3 B1 B4		Thirtieth

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12.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	
13.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Davidson principle of medicine
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	University educational platform

**Republic of Iraq
Ministry of Higher
Education
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Al-Ayen Iraqi University
College of medicine**



Al-Ayen Iraqi University College of medicine Quality Assurance Unit

Medical Biology

2025-2026

1. Course Name:					
Medical Biology					
2. Course Code:					
3. Semester / Year:					
First Stage					
4. Description Preparation Date:					
1/9/2025					
5. Available Attendance Forms:					
Full-time and official attendance hours					
6. Number of Credit Hours (120) / Number of Units (6)					
Theoretical : 60 , Practical: 60 , Total: 120					
7. Course administrator's name (mention all, if more than one name)					
Name: Prof. Dr. Mohammed Jasim Mohammed Prof. Dr. Talib Hasan Ali Lec. Dr. Ali Mohammed Barakat Email: ali.barakat1765@gmail.com					
8. Course Objectives					
Course Objectives Medical Biology is a vital scientific discipline in itself, and it is important in obtaining basic information for medical biology as well as providing a good background, not only for doctors but also for scientists in other disciplines who need to provide a broad base of knowledge and understanding of medical biology.			The student should be interested in developing his skills in obtaining scientific information, and therefore, he should be primarily concerned with how to deal with scientific facts, draw conclusions, interpret results, and how to present and discuss them.		
9. Teaching and Learning Strategies					
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group discussion, presentation) - Discussion - Problem solving				
10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
1	2	A 1 /A4/A7/ A8 B4/B5/B6/ B9/ B19 / C4/ C5	Part 1: Cell Biology Introduction of Biology	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Types of cells	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Tools of cell biology	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Composition of the cells: To understanding of The cytoplasm. Endoplasmic reticulum. Golgi apparatus. Ribosomes	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Composition of the cells: To understanding of Lysosomes. Peroxisomes. Mitochondria. Vacuoles. Centrosome. Cilia and flagella. Non- living inclusion bodies	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Cell Structure : To understanding of The Nucleus. Nuclear envelope. Nucleoplasm. Nucleolus.	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Cell structures To understanding of Cytoskeleton Intermediate filaments. Microtubules. Microfilaments.	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Plasma membrane To understanding of •Structure and function •Membrane lipids. •Membrane protein diversity.	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	2		How molecules cross the plasma membrane	Lectures (Interactive)	Midterm exams

		A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	To understanding of •Passive ways. •diffusion. •Osmosis. •Facilitated transport.	OnlineLectures (Interactive) Role play Team–based learning presentation) Discussion Problem solving	Practical exam Final exams evaluations
10	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	How molecules cross the plasma membrane To understanding of •Active transport. •Extracellular matrix •Types of junctions.	Lectures (Interactive) OnlineLectures (Interactive) Role play Team–based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Cell Division To understanding of •Chromosome Composition. • Cell cycle. • Mitosis. • Mitosis phases.	Lectures (Interactive) OnlineLectures (Interactive) Role play Team–based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Meiosis To understanding of •Meiosis. • Mitosis phases • Antigenic Structure. •Gametogenesis. •spermatogenesis. •Oogenesis	Lectures (Interactive) OnlineLectures (Interactive) Role play Team–based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/	Part 2 : Histology Epithelial tissue ☐ Introduction ☐ Classification A-Simple epithelium	Lectures (Interactive) OnlineLectures (Interactive)	Midterm exams Practical exam Final exams

		C4/ C5	☐ Simple squamous epithelium ☐ Simple cuboidal epithelium ☐ Simple columnar epithelium ☐ Pseudostratified columnar ciliated epithelium ☐ B-Stratified epithelium ☐ Stratified squamous non keratinizing epithelium ☐ Stratified columnar epithelium ☐ Transitional epithelium	Role play Team-based learning (presentation) Discussion Problem solving	evaluations
14	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Glands Classification of glands A-exocrine glands • Simple glands • Compound glands • Tubular, acinous and alveolar glands • Merocrine glands B- Endocrine glands C- Mixed glands	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Connective tissue • Definition • Basic structure • Classification • Function • Connective tissue proper A-loose connective tissue • Fibers: collagen, elastic and reticular • Cells: fibroblast, fat cells, plasma cells, macrophage, mast cells, lymphocytes, monocytes, eosinophils and pigment cells B- Dense connective tissue • White collagenous • Yellow elastic • special connective tissue • adipose • reticular • pigment tissue	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Muscle tissue Introduction and types of muscle tissue A-striated muscle • introduction • sarcolemma and basement membrane • cross striations • striated muscle contraction B-cardiac muscle	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation)	Midterm exams Practical exam Final exams evaluations

			• introduction • fine structure • blood vessels and lymphatics • nerves • development of cardiac muscles C-smooth muscle • introduction • size, shape and arrangement of smooth muscle fibers • blood vessels and lymphatics • nerve supply • development • chief distribution of smooth muscle	Discussion Problem solving	
17	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Nervous tissue • introduction • development of nervous tissue • neurone, structure and types • synapses • neuroglia: astrocytes, oligodendrocytes, microglia • Nerve fibers • Myelinated nerve fibers • Non myelinated nerve fibers • Ganglia • Cerebrospinal (sensory ganglia) • Autonomic ganglia • Nerve endings	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
18	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Part 3: Genetics Introduction and history of genetics development	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Mendel's 1st law of segregation and 2nd law of independent assortment with few definitions concerning genotype, phenotype, alleles and homologous chromosomes, recessive	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

			genes and dominant genes.	presentation) Discussion Problem solving	
20	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Modes of inheritance A- recessive model its characters, example of disease with their mode and different probabilities and results of their mode of inheritance B- Dominant inheritance: characters, example of dis with their mode and diffe probabilities and results of t mode of inheritance		
21	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Genetics of sex determin and sex chromosome, sex lin gene with example of disease their mode and characters of t type of inheritance probabilities of inheritance, limited gene and characters	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Linkage: its usage in chromosomal mapping and location of genes on certain chromosomes and as a cause for deviation of certain diseases from the expected re according to Mendel's 2nd independent assortment.	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Crossing over and the exchan of genetic material between homologous in meios and its importance as a natura method in creating variation for the effect of selection	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
24	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	interaction between environment and genetic constitution of an individual exemplified by multifactorial inheritance	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Structure of chromosomes with details of the DNA structure and bases. The double helix and other unit of heredity the gene its structure and the concept of one gene to one polypeptide chain	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Transcription and translation of the genetic code by the specificity of the base sequence	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	hemoglobinopathies and types of mutation causing them characteristics of resulting haemoglobin and syndromes (frame shift mutation, substitution, deletion mutation)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

28	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Unequal crossing over.	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Thalassemia syndrome, molecular biology of the two types of thalassemia (α and β) and its different syndrome.	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	2	A 1 /A4/A7/ A8 B4/B5/B6/B9/ B19/ C4/ C5	Blood grouping ABO system, secretor system and explanation of Bombay phenomena., Rh system and their genetic as an example of multiple alleles (locus). Determination of a character, blood groups association with disease.	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	1. Medical Microbiology by Jawetz, Melnick 26th ed., 2013. 2. Textbook: <i>Sylvia S. Mader. Biology, 13th edition. McGraw Hill Inc. ISBN 13: 9781259824906. Published by McGraw Hill, 2016.</i> 3) Foundations in Microbiology by Talaro and Talaro 3rd ed., 2005.
Recommended books and references	University educational platform

(scientific journals, reports...)	
Electronic References, Websites	University educational platform

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



Al-Ayen Iraqi University College of medicine Quality Assurance Unit

Course Description

Medical Ethics

2025-2026

1. Course Name:	
Medical Ethics (1)	
2. Course Code:	
3. Semester / Year:	
Semester (1) / Fourth level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 60 , Practical: 60 , Total: 120	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Abdul Hassan Mahdi Al Niazi	
8. Course Objectives	
1. The goal of the branch is to strive to prepare doctors with high scientific, skill and professional qualifications, as well as to develop research capacity 2. In the medical and clinical aspects to serve the community. 3. The program also aims to introduce modern educational methods and add advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, and its goal is to develop scientific and professional capabilities. 4. Encouraging scientific research and employing it to contribute to solving community health and social problems. 5. Holding seminars, scientific conferences and seminars to discuss health and Scientific issues for the country.	
9. Teaching and Learning Strategies	
Strategy	Blended learning • Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group discussion, presentation) - Discussion - Problem solving

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10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Introduction to Medical Ethics	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	The Concept of Ethics	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	The Hippocratic Oath	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Basic Principles of Med Ethics	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Autonomy and the Patient's Right to Make Decision	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Beneficence and Non- Maleficence in Medical Practice	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Justice and Fair Distribution of Healthcare Resources	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Doctor-Patient Relationship:	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Medical Confidentiality Patient Privacy	Lectures (Interactive) OnlineLectures (Interactive) Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
10	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Informed Consent:	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Truth-Telling	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Medical Errors and Professional Responsibility	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Organ Donation and Transplantation Ethics	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	2	A 1 /A2/A5	End-of-Life Care and Palliative Ethics	Lectures (Interactive)	Midterm exams

		B4/B5/B17 C4/ C5		OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams evaluations
15	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Euthanasia and Related Ethical Dilemmas	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Research Ethics	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Conflict of Interest and Professional Integrity		Midterm exams Practical exam Final exams evaluations
18	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Public Health Ethics	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Reproductive Ethics	Lectures (Interactive) OnlineLectures (Interact Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
20	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Genetics and Modern Ethical Challenges		
21	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Ethics in Psychiatry	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22		A 1 /A2/A5 B4/B5/B17 C4/ C5	Ethical Practice During War	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23		A 1 /A2/A5 B4/B5/B17 C4/ C5	Cultural and Religious Values in Medical	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
24		A 1 /A2/A5 B4/B5/B17 C4/ C5	Legal and Regulatory Frameworks	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
25		A 1 /A2/A5 B4/B5/B17 C4/ C5	Medical Professionalism	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26		A 1 /A2/A5 B4/B5/B17 C4/ C5	Role of Ethics Committe	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27		A 1 /A2/A5 B4/B5/B17 C4/ C5	Effective Communicatio	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28		A 1 /A2/A5	Case Discussions:	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29		B4/B5/B17	Ethical Leadership	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
30		A 1 /A2/A5 B4/B5/B17 C4/ C5	Comprehensive Review	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Beauchamp, T.L. & Childress, J.F. <i>Principles of Biomedical Ethics</i> , 8th Edition. Oxford University Press, 2019
Main references (sources)	Bailey & Love's Short Practice of Surgery
Recommended books and references (scientific journals, reports...)	Annals of Surgery The Lancet Surgery British Journal of Surgery
Electronic References, Websites	University educational platform

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



Al-Ayen Iraqi University College of medicine Quality Assurance Unit

Medical Physics

2025-2026

1. Course Name:					
Medical Physics					
2. Course Code:					
3. Semester / Year:					
Third Stage					
4. Description Preparation Date:					
1/9/2025					
5. Available Attendance Forms:					
Full-time and official attendance hours					
6. Number of Credit Hours (150) / Number of Units (6)					
Theoretical : 90 , Practical: 60 , Total: 150					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. . ali abdulhasan kadhim Lec. Msc. kasim kareem Email: alikadhim470@gmail.com					
8. Course Objectives					
9. Teaching and Learning Strategies					
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving				
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11	Terminology, modeling and	Lectures (Interactive)	Midterm exams Practical exam

		C4/ C5	measurement	Online Lectures (Interactive) Role play Team-based learning presentation Discussion Problem solving	Final exams evaluations
2	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of the skeleton	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of the cardiovascular system(I)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of the cardiovascular system(II)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solv	
5	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Cardiovascular Instrumentation(I)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
6	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Cardiovascular Instrumentation (11)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
7	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of diagnostic X ra	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
8	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of diagnostic X-ray(II)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation Discussion Problem solv	
9	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of diagnostic ray(II)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
10	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of diagnostic X-ray(IV)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
11	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of radiation therapy (I)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of radiation therap (II)	Lectures (Interactive) OnlineLectur (Interactive) Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation Discussion Problem solv	
13	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Radiation protection medicine (I)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
14	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Radiation protection medicine (II)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
15	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Heat and Cold in medicine (I)	Lectures (Interactive) OnlineLectur (Interactive) Role play Team-based learning presentation Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
16	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Heat and Cold in medi (II) Pressure (I)	Lectures (Interactive) OnlineLectur	Midterm exams Practical exam Final exams

				(Interactive) Role play Team-based learning presentation) Discussion Problem solv	evaluations
17	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Pressure (II)	Lectures (Interactive) Online Lectu (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
18	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Lungs and Breathing (I)	Lectures (Interactive) Online Lectu (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
19	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Lungs and Breathing (II)	Lectures (Interactive) Online Lectu (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations

20	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Electricity within the body		
21	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Electricity within the body Electricity & Magnetism medicine (1)	Lectures (Interactive) Online Lectu (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
22	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Electricity & Magnetism medicine (11)	Lectures (Interactive) Online Lectu (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
23	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of Ear & Hearing	Lectures (Interactive) Online Lectu (Interactive) Role play Team-based learning presentation) Discussion Problem solv	Midterm exams Practical exam Final exams evaluations
24	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of Ear & Hearing	Lectures (Interactive) Online Lectures (Interactive)	Midterm exams Practical exam Final exams evaluations

				Role play Team-based learning presentation Discussion Problem solving	
25	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of Eye and vision	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of Eye and vision	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Energy, work	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

28	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Power of the body	Lectures (Interactive) Online Lecture (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29	2	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Physics of nuclear medicine (radioisotopes in medicine)	Lectures (Interactive) Online Lecture (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	Therapy with radioactivity	Lectures (Interactive) Online Lecture (Interactive) Role play Team-based learning presentation Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	Cameron- medical physics, Armitage – practical physics , Practical medical physics guid

Recommended books and references (scientific journals, reports...)	Cameron- medical physics, Armitage – practical physics Practical medical physics guide
Electronic References, Websites	University educational platform

**Republic of Iraq
Ministry of Higher
Education
& Scientific Research
Al-Ayen Iraqi University
College of medicine**



**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit**

Course Description

Medical Microbiology

2025-2026

1. Course Name:	
Medical Microbiology	
2. Course Code:	
3. Semester / Year:	
Third Stage	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (150) / Number of Units (8)	
Theoretical : 90 , Practical: 60 , Total: 150	
7. Course administrator's name (mention all, if more than one name)	
Name: Prof. Dr. Mohammed Jasim Mohammed Prof. Dr. Talib Hasan Ali Prof. Dr. Raed Fanoukh Aboqader Lec. Dr. Ali Mohammed Barakat Email: ali.barakat1765@gmail.com	
8. Course Objectives	
The objectives of the course are to provide the necessary information to understand the subject of basic biological sciences for pathogenic medical microorganisms (bacteria, viruses, fungi, immunity) and to understand the mechanism of their spread and pathogenicity. Also, the student's knowledge of the different types of microorganisms and the scientific classification followed for these microorganisms. The student's understanding of the physiological and nutritional requirements of these organisms in addition to the different environments in which these microorganisms may live	Identifying the ways in which microorganisms reproduce and transmit and the ideal conditions for their living. The student will know the infections and diseases that can be caused by these microorganisms and thus learn how to prevent or reduce the occurrence of these diseases. Identifying the body's means of defense against the microorganisms and the types of cells that contribute to eliminating them by identifying and studying the human immune system.
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group discussion, presentation) - Discussion - Problem solving

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.The Nature of Host Defenses 2.Introduction of medical microbiology and bacterial structures 3.virology introduction properties and classification	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Systems Involved in immune 2.Bacterial genetics 3.chemical composition of viruses	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Nonspecific immune reactions 2. Gene transfer 3. Reaction of viruses to physical and chemical agents	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Phagocytes 2. Host-pathogen relations 3. Replication of Viruses: Virus Growth Cycle	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
5	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.The Acquisition of specific Immunity 2. Sterilization and disinfection 3. Expression of Viral Genomes and Synthesis of Viral Components	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.The origin of diversity and specificity 2. Staphylococci species 3. Pathogenesis of Viral Diseases	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.The classes of immunoglobulins 2. Streptococci species 3. Viral infections (1)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Immunization and vaccination 2. Neisseria species 3. Viral infections (2)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Serological and immune tests 2. Campylobacter species	Lectures (Interactive) OnlineLectures (Interactive)	Midterm exams Practical exam Final exams evaluations

			3. Rubella viruses	Role play Team-based learning presentation) Discussion Problem solving	
10	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Serological and immune tests 2. Helicobacter pylori 3. RNA non-enveloped viruses	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Disorders in immunity 2. Legionella species 3. Coxsackie viruses	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Disorders in immunity 2. Listeria species 3. Rotaviruses and some Examples of different viruses	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Disorders in immunity 2. The Vibrios 3. Rabies virus and other CNS Viral infections	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

14	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Disorders in immunity 2. Corynebacterium 3. Hepatitis A-E Viruses: An Overview (1)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Disorders in immunity 2. Rickettsia and Related Genera 3. Hepatitis A-E Viruses: An Overview (2)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Immunodeficiency diseases 2. Brucellae 3. Hepatitis A-E Viruses: An Overview (3)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Cancer 2. Enteric Gram Negative Rods (E. coli) 3. Herpesvirus	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
18	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.An introduction lecture in medical mycology 2. klebsiella 3. Picornaviruses	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
19	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.pathogenic mycology 2.pseudomonas 3. Measles viruses	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. opportunistic mycology 2. Acinetobacter species 3. Enteroviruses		
21	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Review 2. Complex aerobic 3. mumps viruses	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Clostridium genus 2. Mycobacteria 3. Chemotherapy of viruses,	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1.Spirochaetes: T. pallidum 2. Borella 3. antiviral agents	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
24	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. proteus 2. vaccines 3. Hemophilic	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Actinomycetes 2. Leptospira 3. Congenital viral infections (1)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. provencia group 2. Salmonella 3. Congenital viral infections (2)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Bacillus genus (1) 2. Shigella 3. Rhinoviruses	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Pasterurella 2. Bacillus genus (2) 3. Antimicrobial therapy	Lectures (Interactive) Online Lectures (Interactive) Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
29	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Chlamydia (1) 2. Normal microbial flora of Human (1) 3.Review	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	3	A 1 /A2/A4/ A6 B4/B5/B9/ B11 C4/ C5	1. Chlamydia (2) 2. Normal microbial flora of Human (2) 3. Review	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	1. Medical Microbiology by Jawetz, Melnick 26th ed., 2013. 2. Immunology by kuby 5th ed., 2002. 3. Foundations in Microbiology by Talaro and Talaro 3rd ed., 2005.
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	University educational platform

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College of medicine**



Al-Ayen Iraqi University College of medicine Quality Assurance Unit

Course Description

Parasitology

2025-2026

1. Course Name:	
Parasitology	
2. Course Code:	
3. Semester / Year:	
Semester (1) / second level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: 90, Practical: 60 , Total: 150 , Units: 8	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Khaled Al-Zehairi Assistant alecturer: Tiba Imad Email: tebaemad940@gmail.com	
8. Course Objectives	
The goal of learning Parasitology is to understand the biology, life cycles, and interactions of parasites with their hosts. It helps medical students identify, diagnose, and treat parasitic infections that affect human health worldwide. Knowledge of parasitology is essential for disease prevention, public health strategies, and controlling parasitic outbreaks. It also provides insights into host-parasite relationships, immunity, and development. Ultimately, studying parasitology equips healthcare professionals with the skills needed to manage and mitigate the impact of parasitic diseases effectively.	
9. Teaching and Learning Strategies	
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group discussion, presentation) - Discussion - Problem solving

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A 1 /A2/ B4/B5/ C4/ C5	Introduction parasitology	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	6	A 1 /A2/ B4/B5/ C4/ C5	Entamoeba histolytica and other amoebae	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	1	A 1 /A2/ B4/B5/ C4/ C5	Blastocystis hominis, Balantidium coli	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A2/ B4/B5/ C4/ C5	Flagellates,intestinal flagellates	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	3	A 1 /A2/ B4/B5/ C4/ C5	Blood and tissues flagellates	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	4	A 1 /A2/ B4/B5/ C4/ C5	Sporozoa, malaria	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	3	A 1 /A2/ B4/B5/ C4/ C5	Toxoplasma, isospora and sarcocystis spp	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	1	A 1 /A2/ B4/B5/ C4/ C5	Introduction helminthes: Cestodes	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	2	A 1 /A2/ B4/B5/ C4/ C5	Taenia saginata, and solium	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
10	2	A 1 /A2/ B4/B5/ C4/ C5	E. granulosus and hydatid disease	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	A 1 /A2/ B4/B5/ C4/ C5	Other cestodes	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A2/ B4/B5/ C4/ C5	Introduction to Trematodes intestinal liver &lung flukes	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	3	A 1 /A2/ B4/B5/ C4/ C5	Blood Flukes (schistosomes)	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	2	A 1 /A2/ B4/B5/ C4/ C5	Introduction to nematodes Ascaris	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
15	2	A 1 /A2/ B4/B5/ C4/ C5	Hook worms	Lectures (Interactive) OnlineLectures (Interactiv Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	2	A 1 /A2/ B4/B5/ C4/ C5	Trichuris , Enterob Trichenella	Lectures (Interactive) OnlineLectures (Interactiv Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	2	A 1 /A2/ B4/B5/ C4/ C5	rongyloides sterco and microfilaria		Midterm exams Practical exam Final exams evaluations
18	4	A 1 /A2/ B4/B5/ C4/ C5	Arthropods	Lectures (Interactive) OnlineLectures (Interactiv Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	World Health Organization (WHO) –

	Parasitic Diseases • https://www.who.int/health-topics/parasites Centers for Disease Control and Prevention (CDC) – Parasites • https://www.cdc.gov/parasites/ Medscape – Parasitic Infections • https://www.medscape.com
Recommended books and references (scientific journals, reports...)	• Medical Parasitology: A Textbook – Subhash Chandra Parija (Latest Edition) • A comprehensive guide covering parasite classification, diagnosis, treatment, and prevention. <i>Scientific Journals:</i> The American Journal of Tropical Medicine and Hygiene (AJTMH) ○ https://www.ajtmh.org
Electronic References, Websites	• University educational platform

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College of medicine

Quality Assurance Unit

Course Description

Pathology

2025-2026

1. Course Name:	
Pathology	
2. Course Code:	
3. Semester / Year:	
Third level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
240 hrs/18 unit	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Hasan Sarhan Sajet Email: hrzrm.5@gmail.com	
8. Course Objectives	
Course Objectives	• Enhancing medical understanding diseases and their diagnostic methods. • Developing practical skills in forensic medicine. • Encouraging scientific research and critical thinking.
9. Teaching and Learning Strategies	
Strategy	Interactive teaching methods such as lectures and group discussions are used to encourage critical thinking and active participation. Additionally, there is a focus on clinical training and hands-on experience in hospitals and medical centers, where students gain direct experience under the supervision of specialists. Educational strategies also support scientific research activities and individual and group projects that enhance students' abilities to conduct research and analyze results.
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Introduction	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Cellular injury and adaptation	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Inflammation	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Healing	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
5	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Hemodynamic	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Infectious	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Infectious	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Neoplasia	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

9	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Genetic	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
10	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Immune	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Enviromental	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	CVS	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

13	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Respiratory	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Urinary	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Male Reproductive	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Female reproductive	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	2	A 1 /A2/A5 B4/B5/B17	Breast	Lectures (Interactive)	Midterm exams

		C4/ C5		Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams evaluations
18	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	GIT	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Endocrine	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Blood	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
21	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Locomotor	Lectures (Interactive) Online	Midterm exams Practical exam

				Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Final exams evaluations
22	3	A 1 /A2/A5 B4/B5/B17 C4/ C5	Nervous	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Revision	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Robbin's Pathology
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	University educational platform

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**Al-Ayen Iraqi University
College of medicine
Quality Assurance Unit
Course Description
pediatrics
2025-2026**

1. Course Name:	
Obstetrics and Gynecology	
2. Course Code:	
3. Semester / Year:	
Fourth year	
4. Description Preparation Date:	
26/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: 105hs, Practical: 120hs, Total: 225 hours	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr Khalid khlofy	
8. Course Objectives	
1. providing students with basic knowledge and skills necessary in the field of public health and primary health care 2. developing student's capabilities in the field of biostatistics, epidemiology, communicable and non-communicable disease and global, regional and local health problems. 3. effective contribution to qualifying doctors capable of meeting the preventive, therapeutic and Rehabilitative needs of society. 4. Training students on the principles of scientific research and supervising their implementation of scientific and health research in various domains. 5. Conducting medical research and providing the necessary advice to researchers 6. supports, assist and evaluate the procedures for implementing the family medicine	
9. Teaching and Learning Strategies	
Strategy	Blended learning ● Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving
10. Course Structure	

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Growth & development	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
2	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Mile stones & primitive reflexes Mile stones & primitive reflexes	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Growth at different age groups - Growth at different age groups	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Rickets	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Malnutrition	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Failure to thrive	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Immunization	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Factors influencing vaccination	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Adverse reactions to vaccines	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
10	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Breast feeding	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	• Technique of breast feeding	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Artificial formula feeding	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Feeding problems in infancy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Gastroenteritis	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams Evaluations

				Team-based learning presentation) Discussion Problem solving	
15	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Chronic Gastroenteritis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
16	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Treatment of AGE	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
17	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Roseola infantum	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
18	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Measles	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	4	7A/6A/8A	-German measles	Lectures (Interactive)	Midterm exams

		6B/11B/17B/19B 3C/ 4C/ 5C		OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams Evaluations
20	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Pertussis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
21	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Varicella	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
22	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Viral hepatitis A	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
23	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Viral hepatitis B	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

24	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Poliomyelitis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
25	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Tetanus	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
26	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Hepatitis C	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
27	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Infectious mononucleosis	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams Evaluations
28	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	- Aquired immune diffeciency syndrome	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation)	Midterm exams Practical exam Final exams Evaluations

				Discussion Problem solving	
29	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Mumps	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
30	4	7A/6A/8A 6B/11B/17B/19B 3C/ 4C/ 5C	Diphtheria	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	- Nelson Textbook of pediatrics
Main references (sources)	Control of communicable diseases Manual (CCDM)
Recommended books and references (scientific journals, reports...)	University lectures note (Iraq, local curricula)
Electronic References, Websites	https://www.health.harvard.edu

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Al-Ayen Iraqi University College of medicine Quality Assurance Unit

Course Description

Pharmacology

2025-2026

Course Description Form

1. Course Name:	
Pharmacology (1)	
2. Course Code:	
3. Semester / Year:	
Semester (1) / second level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 90 , Practical: 60 , Total: 150	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr.fadhil saeed waeed Ass. Prof. Hesham Abdullah Eliwa Email: dr.heshamab@gmail.com	
8. Course Objectives	
Pharmacology is a lively scientific discipline in its own right, with an importance beyond that of providing a basis for the use of drugs in therapy, and we aim to provide a good background, not only for future doctors but also for scientists in other disciplines who need to understand how drugs act. Student should be concerned to understand a rational ,critical attitude to drug therapy and they should therefore, chiefly concern themselves with how drugs act and interact in disease and with how evidence of therapeutic effect is obtained.	
9. Teaching and Learning Strategies	
Strategy	Blended learning • Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving

10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	A 1 /A2/A3 B4/B5/ C4/ C5	General Pharmacology	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	3	A 1 /A2/A3 B4/B5/ C4/ C5	Routes of administration	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	3	A 1 /A2/A3 B4/B5/ C4/ C5	Introduction to the Nervous System	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	3	A 1 /A2/A3 B4/B5/ C4/ C5	Sympathomimetic drugs	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

5	3	A 1 /A2/A3 B4/B5/ C4/ C5	Sympatholytic drugs	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	3	A 1 /A2/A3 B4/B5/ C4/ C5	Parasympathomimetic Drugs and parasympatholytic	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	3	A 1 /A2/A3 B4/B5/ C4/ C5	Cardiovascular system	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	A 1 /A2/A3 B4/B5/ C4/ C5	Antihypertensive drugs	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	3	A 1 /A2/A3 B4/B5/ C4/ C5	Heart failure	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
10	2	A 1 /A2/A3 B4/B5/ C4/ C5	Respiratory system	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	3	A 1 /A2/A3 B4/B5/ C4/ C5	Skeletal muscle relaxan	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A2/A3 B4/B5/ C4/ C5	Autocoids	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	A 1 /A2/A3 B4/B5/ C4/ C5	General Anesthetics	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	3	A 1 /A2/A3	Local Anesthetics	Lectures (Interactive)	Midterm exams

		B4/B5/ C4/ C5		OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams evaluations
15	3	A 1 /A2/A3 B4/B5/ C4/ C5	antiarrhythmic drugs	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	3	A 1 /A2/A3 B4/B5/ C4/ C5	Drugs for the Respiratory System	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	3	A 1 /A2/A3 B4/B5/ C4/ C5	Drugs for Anemia		Midterm exams Practical exam Final exams evaluations
18	3	A 1 /A2/A3 B4/B5/ C4/ C5	ANTICOAGULANTS	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	3	A 1 /A2/A3 B4/B5/ C4/ C5	ANTIPLATELETS Drugs	Lectures (Interactive) OnlineLectures (Interacti Role play	Midterm exams Practical exam Final exams evaluations

				Team-based learning presentation) Discussion Problem solving	
20	3	A 1 /A2/A3 B4/B5/ C4/ C5	Antidepressants , antipsychotic and epilepsy		
21	3	A 1 /A2/A3 B4/B5/ C4/ C5	Anxiolytic & Opioids Thyroid hormone	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	3	A 1 /A2/A3 B4/B5/ C4/ C5	Antirheumatic and gout	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	3	A 1 /A2/A3 B4/B5/ C4/ C5	Ganglionic neuromuscular blocker	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
24	3	A 1 /A2/A3 B4/B5/ C4/ C5	Gastrointestinal and Antiemetic Drugs	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
25	3	A 1 /A2/A3 B4/B5/ C4/ C5	Antihypertensives	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
26	3	A 1 /A2/A3 B4/B5/ C4/ C5	Angina and Heart failure	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	3	A 1 /A2/A3 B4/B5/ C4/ C5	Antiviral , fungal , bacterial	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	3	A 1 /A2/A3 B4/B5/ C4/ C5	Antimalaria and pharmacology	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29	3	A 1 /A2/A3 B4/B5/ C4/ C5	Cancer chemotherapy	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning	Midterm exams Practical exam Final exams evaluations

				presentation) Discussion Problem solving	
30	3	A 1 /A2/A3 B4/B5/ C4/ C5	Insulin and Hypoglycemia Cortisone	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Non
Main references (sources)	1-Allegaert K, van den Anker JN.(2017). Editorial.Neonatal Clinical Pharmacology: A Rapidly Maturing Discipline. Curr Pharm Des; 23 (38): 5767- 68. eng. 2-Bertino JS, Jr., Greenblatt DJ.(2017). The Journal Clinical Pharmacology, Clinical Pharmacology in I Development, and the Impact Factor . J Clin Pharmacol (5): 545-46. eng.
Recommended books and references (scientific journals, reports...)	Lippincott illustrated reviews.Whalen K.,7 th ed.,2019 Basic & Clinical Pharmacology 14th Edition Goodman and Gilman's The Pharmacological B of Therapeutics,13th Edition 2017
Electronic References, Websites	University educational platform

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Course Description**

**Medical physiology
2025-2026**

1. Course Name: physiology/ second year

2. Course Code: - -physiology-2

3. Semester / Year: Annual

4. Description Preparation Date: 1/9/2025

5. Available Attendance Forms: Mandatory

6. Number of Credit Hours (Total) / Number of Units (Total): 120 hours theoretical and 120 hours practical / Units

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

Name: DR.gaith Ibrahim jabbar

Email: @gmail.com

8. Course Objectives

Striving to prepare doctors with high scientific, skill and professional qualifications, as well as developing research capacity in medical aspects and various fields of pathology in a way that serves society.

The program also aims to introduce modern educational methods and employ advanced information technologies and explanation through the teaching staff capable of keeping pace with development and modernity, the aim of which is to develop scientific and professional capabilities.

Holding seminars, scientific conferences and seminars to discuss health and scientific issues of the country.

Encouraging scientific research and employing it to contribute to solving community health and social problems.

9. Teaching and Learning Strategies

Strategy	
	1. Follow the methods of explanation and clarification of the study vocabulary using the available presentation techniques.
	2. Giving lectures and making presentations at the end.
	3. discuss and ask questions in the classroom to open the door to dialogue.

4. Give and discuss homework.
5. Training visits to primary health care centers.
6. Conduct field to research, write up its results and evaluate it.

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1 hour theoretical 1 hour' practical Weekly	A1/A2/A5 B4/B5/ B 17 C4/C5	Physiology Neuromuscular system	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
2		A1/A2/A5 B4/B5B/17 C4/C5	Endocrine system part11	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
3		A1/A2/A5 B4/B5B/17 C4/C5	Endocrine part 2	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
4		A1/A2/A5 B4/B5B/17 C4/C5	Reproductive system part 1	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
5		A1/A2/A5 B4/B5B/17 C4/C5	Reproductive system part 2	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
6		A1/A2/A5 B4/B5B/17 C4/C5	Cardiovascular system part 1	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations

7		A1/A2/A5 B4/B5B/17 C4/C5	Cardiovascular system part 2	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
8		A1/A2/A5 B4/B5B/17 C4/C5	Hemodynamic physiology	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
9		A1/A2/A5 B4/B5B/17 C4/C5	Hemodynamic physiology	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
10		A1/A2/A5 B4/B5B/17 C4/C5	hematology	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
11		A1/A2/A5 B4/B5B/17 C4/C5	Hemodynamic stability 2	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
12		A1/A2/A5 B4/B5B/17 C4/C5	Immune system	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
13		A1/A2/A5 B4/B5B/17 C4/C5	Body fluid	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
14		<u>Revision</u>		lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
15		<u>LECTURE1.</u> Introduction, Anatomy		lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations

16		A1/A2/A5 B4/B5B/17 C4/C5	Genitourinara system part 1	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
17		A1/A2/A5 B4/B5/B17 C4/C5	Genitourinara system part 2	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
18		A1/A2/A5 B4/B5/B17 C4/C5	Genitourinara system part 3	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
19		A1/A2/A5 B4/B5/B17 C4/C5	GIT system	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
20		A1/A2/A5 B4/B5B/17 C4/C5	GIT part 2	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
21		A1/A2/A5 B4/B5/B17 C4/C5	GIT part 3	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
22		A1/A2/A5 B4/B5B/17 C4/C5	GIT part 4	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
23		A1/A2/A5 B4/B5/B17 C4/C5	Endocrine system part 1	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations
24		A1/A2/A5 B4/B5/B17 C4/C5	Endocrine system part2	lectures using Theoretical Power Point + pract presentation	Midterm exams Practical exam Final exams evaluations

25		A1/A2/A5 B4/B5/B17 C4/C5	Endocrine system part 3	lectures using Theoretical Power Point + practical presentation	
26		A1/A2/A5 B4/B5/B17 C4/C5	revision	lectures using Theoretical Power Point + practical presentation	Midterm exams Practical exam Final exams evaluations
27		A1/A2/A5 B4/B5/B17 C4/C5	revision	lectures using Theoretical Power Point + practical presentation	

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Guyton and hall textbook of physiology
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	University educational platform

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Course Description

Surgery

2025-2026

Course Description Form

1. Course Name:	
Surgery (1)	
2. Course Code:	
3. Semester / Year:	
Semester (1) / Fourth level	
4. Description Preparation Date:	
1/9/2025	
5. Available Attendance Forms:	
Full-time and official attendance hours	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical : 60 , Practical: 60 , Total: 120	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr. Kareem Dawood Alzarqani Dr. Akram Jawda Dr. Haider Mohammed	
8. Course Objectives	
1. The goal of the branch is to strive to prepare doctors with high scientific, skill and professional qualifications, as well as to develop research capacity 2. In the medical and clinical aspects to serve the community. 3. The program also aims to introduce modern educational methods and add advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, and its goal is to develop scientific and professional capabilities. 4. Encouraging scientific research and employing it to contribute to solving community health and social problems. 5. Holding seminars, scientific conferences and seminars to discuss health and Scientific issues for the country.	
9. Teaching and Learning Strategies	
Strategy	Blended learning • Lectures (Interactive) - Online Lectures (Interactive)

	Role play Team-based learning (group dissuasion, presentation) Discussion Problem solving
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10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Fluid, electrolyte & acid base balance	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Metabolic response to trauma	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Hemorrhage, blood transfusion	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	2	A 1 /A2/A5	Shock	Lectures (Interactive)	Midterm exams

		B4/B5/B17 C4/ C5		OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Practical exam Final exams evaluations
5	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Wound healing. Scar and keloid	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
6	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Surgical infections	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Stirilization	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Burn	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
9	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Periphiral arter diseases & gangrene	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
10	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Lymphatic	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	DVT	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Ulceration	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Hydatid disease	Lectures (Interactive) OnlineLectures (Interact Role play	Midterm exams Practical exam Final exams

				Team-based learning presentation) Discussion Problem solving	evaluations
14	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Neoplasim & tumor mar	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
15	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Soft tissues masses	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Skin infection (cellulitis abscesses, boils)(	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Types of incisions		Midterm exams Practical exam Final exams evaluations
18	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Surgical material & instruments	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation)	Midterm exams Practical exam Final exams evaluations

				Discussion Problem solving	
19	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Preoperative assessment	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Postoperative complications		
21	2	A 1 /A2/A5 B4/B5/B17 C4/ C5	Laparoscope & endosco	Lectures (Interactive) OnlineLectures (Interact Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Bailey & Love's Short Practice of Surgery
Main references (sources)	Bailey & Love's Short Practice of Surgery
Recommended books and references (scientific journals, reports...)	Annals of Surgery The Lancet Surgery British Journal of Surgery
Electronic References, Websites	University educational platform

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Course Description

Medical Terminology

2025-2026

1. Course Name:					
Medical terminology					
2. Course Code:					
3. Semester / Year:					
First year					
4. Description Preparation Date:					
1/9/2025					
5. Available Attendance Forms:					
Full-time and official attendance hours					
6. Number of Credit Hours (Total) / Number of Units (Total)					
Theoretical : 30 hours					
7. Course administrator's name (mention all, if more than one name)					
Name: Dr. Haider M. Mehdi Dr. Zainab M. Ali Zrrszrrs0@gmail.com					
8. Course Objectives					
1. The goal of the branch is to strive to prepare doctors with high scientific, skill and professional qualifications, as well as to develop research capacity 2. In the medical and clinical aspects to serve the community. 3. The program also aims to introduce modern educational methods and add advanced information technologies and means of explanation through the teaching staff capable of keeping pace with development and modernity, and its goal is to develop scientific and professional capabilities.					
9. Teaching and Learning Strategies					
Strategy	Blended learning - Lectures (Interactive) - Online Lectures (Interactive) - Role play - Team-based learning (group dissuasion, presentation) - Discussion - Problem solving				
10. Course Structure					
Week	Hours	Required Learning	Unit or subject name	Learning method	Evaluation method

		Outcomes			
1	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	word analysis& combining form, suffixes prefixes	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
2	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Pronunciation of terms & practical applications	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
3	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Picture show & review	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
4	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Introduction to body systems	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
5	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	body cavities division of back	Lectures (Interactive) OnlineLectures (Interacti	Midterm exams Practical exam

				Role play Team-based learning presentation) Discussion Problem solving	Final exams evaluations
6	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Planes of the body & terminology	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
7	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	CVS	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
8	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	GIT	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
9	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Pronunciation of terms & practical applications	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

10	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Picture show & review	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
11	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	CNS	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
12	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Respiratory System	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
13	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	In person: CT & MRI & exercises answers	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
14	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Picture show & review	Lectures (Interactive) OnlineLectures (Interactive) Role play Team-based learning presentation) Discussion	Midterm exams Practical exam Final exams evaluations

				Problem solving	
15	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Additional topic (Medical ethics, legal issues)	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
16	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Musculoskeletal system	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
17	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Endocrine system		Midterm exams Practical exam Final exams evaluations
18	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Combining forms, suffixes & Terminology	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
19	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Prefixes & terminology	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
20	1	2A/6A/8A	Skin & sense		

		6B/14B/19B 3C, 4C, 5C	organs		
21	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	In person total knee replacement exercise & answers	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
22	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Lymphatic system)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
23	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Urinary tract system	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
24	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	In person lived with Crohn disease	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning (presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
25	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Pronunciation of terms & practical	Lectures (Interactive) Online Lectures (Interactive)	Midterm exams Practical exam Final exams

			applications	Role play Team-based learning presentation) Discussion Problem solving	evaluations
26	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Picture show & review	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
27	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	In person: Gall bladder exercise & answers	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
28	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Introduction & medical specialists	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
29	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Combining forms and vocabulary & case reports	Lectures (Interactive) OnlineLectures (Interacti Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations

30	1	2A/6A/8A 6B/14B/19B 3C, 4C, 5C	Additional topics (health informatics, medical research)	Lectures (Interactive) Online Lectures (Interactive) Role play Team-based learning presentation) Discussion Problem solving	Midterm exams Practical exam Final exams evaluations
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11. Course Evaluation

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

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Medical terminology text book
Main references (sources)	
Recommended books and references (scientific journals, reports...)	American journal of clinical nutrition European journal of clinical nutrition
Electronic References, Websites	https://www.WHO.int https://www.health.harvard.edu https://www.nutrition.gov