Republic of Iraq Ministry of Higher Education and Scientific Research University of Warith Al-Anbiyaa العسدد :

التاريخ :



جمهورية العراق وزارة التعليم العالي والبحث العلمي جامعة وارث الانبياء (ﷺ)

## **Course Specifications**

Course name: Microbiology

Course stage: Second year second Semester.

Credit Hours: 2 hours per week

Course Calendar: Total (30) hours per 15 Week (Theory (2) hrs. Practices (2) hrs.

Teacher name: Bahaa Alaa Farhan Certificate: MSc. Microbiology

Microbiology is the study of the characteristics of tiny, living things, and the way they affect the world. These tiny microbes affect just about everything by either application or disease. Microbiology helps track the negative and positive outcomes of the microbes' work.

Parasitology is the scientific discipline concerned with the study of the biology of parasites and parasitic diseases, including the distribution, biochemistry, physiology, molecular biology, ecology, evolution and clinical aspects of parasites, including the host response to these agents.

Microbiology courses teach the basics of study of parasites, their hosts, and the relationship between them. As a biological discipline, the scope of parasitology is not determined by the organism or environment in question but by their way of life. This means it forms a synthesis of other disciplines, and draws on techniques from fields such as cell biology, bioinformatics, biochemistry, molecular biology, immunology, genetics, evolution and ecology. ..

Methods of teaching (theory) Direct interview with student to explain.

Lecture 🛠

- Discussion 🛠

- Video viewing / 🔅

- Seminars 🛠

Methods of evaluation

-Daily quiz.

-Daily report and seminar.

-Monthly test.

-Final test

## **Resources and references:**

Web site : uowa.edu.iq E.mail :info@uowa.iq Phone :+964-7700174877 - جامعة معترف بها من قبل وزارة التعليم العالي والبحث العلمي بموجب الامر الوزاري المرقم (ت هـ أ/ك 4727) في (2017/7/10 م) - العنوان : محافظة كربلاء المقدسة / طريق بغداد - كربلاء / مجاور مدينة سيد الاوصياء ( ) للزائرين .



Clinical microbiology -

## Course Syllabus



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Republic of Iraq Ainistry of Higher Education and Scientific Research niversity of Warith Al-Auhhiyarai	الامانة العامة للعتبة الحسينية المقدسة هيئة التعليم الجامعي ty of Baghdad College of	جمهورية العراق وزارة التعليم العالي والبحث العلمي جامعة وإدش الإنبياع (Nursing/ Basie Science
العــدد :	Department	
التاريخ :	/Microbiology for Nu	rses (II)

Weeks	Topics
1.	*Introduction to Parasitology
	*Some terms of parasitology, types of parasites, Routes and modes of infections, types of hosts, relationships between parasite and host, some epidemiological terms,
	*Classification of Protozoa
	*General characters of protozoa
2.	*Entamoeba histolytica, Entamoeba coli
	(Life cycle. Symptom, pathology, diagnosis prevention and control, and treatment) *Balantidium coli (Life cycle and stages. Symptom, diagnosis prevention and
	control, and treatment).
	* Intestinal Flagellates/ Giardia lamblia
	(Life cycle. Symptom, pathology, methods of diagnosis, prevention and control, and treatment) *Luminal and Atrial flagellates
	<i>Trichomonas spp (T. hominis, T. tenax)</i> <i>Trichomonas vaginalis</i> (life cycle. Symptom, pathology, diagnosis, and treatment).
3.	*Blood and Tissue flagellates (Leishmania spp. and Trepanosoma spp.)
	Tissue flagellate ( <i>Leishmania donovani and Leishmania tropica</i> ) (Life cycle -1 and stages. Symptoms, pathology, diagnosis, and treatment) function and types of macrophages. 2- Blood flagellate African trypanosomiasis - American trypanosomiasis - (Stages, life cycle, symptoms, diagnosis, Method of transmission)
4.	*Apicomplexa general characters Plasmodium four species and diseases caused by each one-1
	(Life cycle and stages. Symptom, pathology, diagnosis, global malaria prevention and control and treatment) <i>Toxoplasmas gondii-</i> 2
	(Life cycle and stages. Symptom, diagnosis, control and treatment)

Ainistry of Hig and Scientif	c of Iraq gher Education fic Research arith Al-Anbiyaa العسدد : التاريخ :	الامانة العامة للعتبة الحسينية المقدسة هيئة التعليم الجامعي (* ) (أر المانياري	جمهورية العراق وزارة التعليم العالي والبحث العلمي Helminthes (network) والبحث العلمي Classification of helminths a. Phylum: Platyhelminthes (flatworms)
		Taenia solium, Hymenole	estoda (Tapeworms). general structure eps nana and Echinococcus granulosus) nptom, diagnosis, control and treatment)
6	Schistosoma	patica (Life cycle and sta a haematobium, Schistoso	Trematoda (Flukes). general structure ages. Symptom, diagnosis, control and treatment) <i>oma mansoni, Schistosoma japonicum</i> otom, diagnosis, control and treatment)
7			es or Nemathelminthes general structure

	Ascaris lumbreciod, Anchylostoma duodenale, Enerobius vermicularis, Trichuris
	trchiura
	Life cycle and stages. Symptom, diagnosis, control and treatment
8	Virology *
	General properties of viruses (virus componants) -
	A virus like particles (VLPs) and Subviral particles (viroid and prions) - Classification types -
	Viral replication -
	Viruses effects on cells -
	Persistent viral infections -
	Common routes of viral infection in human -
9	*Measles, AIDS, Influenza virus (general structure of virus, symptoms, method of transmissions and prevention)
10	Hepatitis A, B, C, D, E (general structure of virus, method of * transmissions and prevention) Corona virus *
	- General structure - Three types of human coronavirus cause severe symptoms
	Coronavirus disease 2019 (COVID-19) -
	Prevention and control -
	How does it spread -
site : uowa.edu.ig	- - Diagnosis and tretment - جامعة معارف بها من قبل وزارة التعليم العالى والبحث العلمي بموجب الأمر الوزاري المرقم رت هـ. أرك 2017/2017 مي

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Ainistry of Hi and Scient	ic of Iraq igher Education ific Research Varith Al-AAMMARa(general structure of virus, symptoms, method of transmissions : العـدد التعادي التعادي التعادي العالي والبحث العامي Rubella (general structure of virus, symptoms, method of transmissions : العـدد and prevention : التاريخ التعادي التعادي التعادي التعادي المحدد المحد المحدد المحد المحدد المحدد المحدد المحد المحدد المحد المحدد المحد المحد المحد المح
12	Rota (general structure of virus, symptoms, method of transmissions and * prevention).
	polio virus (general structure of virus, symptoms, method of transmissions * and prevention).
13	Herpes virus and CMV * general structure of virus, symptoms, method of transmissions and * prevention).



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