

Ministry of Higher Education and Scientific research



## **Course syllabus**

**Department of ...MLT**

**Erbil Medical and Health Technical College**

**Erbil Polytechnic University**

**Subject: Clinical parasitology**

**Course Book – (4<sup>th</sup> year, 7<sup>th</sup> semester)**

**Lecturer's name: Assis Prof. Karwan Sallo Najm**

**Academic Year: 2022/2023**

1. Course name	<b>Clinical parasitology</b>
2. Lecturer name	<b>Assist professor: Karwan Sallo Najm</b>
3. Department/ College	<b>MLT</b>
4. Contact	<b>e-mail:karwansn@epu.edu.iq</b>
5. Time (in hours) per week	<b>For example Theory: 2 Practical: 2 : 6 ECTS</b>
6. Office hours	<b>8hr.</b>
7. Course code	<b>CPA704</b>
8. Teacher's academic profile	<p><b>Name: Karwan Sallo Najm AL-Marjan</b>  <b>Family Name: AL- Marjan</b>  <b>Date and Place of Birth: 19th March 1981</b>  <b>Marital Status: married, three children (Girls).</b> </p> <p><b>Academic name: assist.professor in parasitology</b></p> <p>1-گوفاری (Jourdan journal of biological science):زانکوی هاشمی، ئهردهن  2-گوفاری (Almustinsirya journal of science):زانکوی مستنسریه، بغداد، عیراق  3- گوفاری (Mesopotamia journal of agriculture):زانکوی موصل،عیراق  4- گوفاری (scientific journal of Zanko):زانکوی صهلاحهددین،ههریمی کردستان،عیراق  5- گوفاری (scientific journal of Duhok University) زانکوی دهوک، ههریمی.کردستان،عیراق  6- گوفاری (Journal of Zaxo university) زانکوی زاخو، ههریمی کردستان،عیراق  7- گوفاری (journal of polytechnique university) :زانکوی بولیتکنیکی ههولیر، ههریمی کردستان،عیراق  8-گوفاری بغداد  9-گوفاری دیاله</p>
Assistant lecture	<b>Liza Jamal Yousif</b>
e.mail	<b>m.liza.jamal@epu.edu.iq</b>

<b>9. Keywords</b>	<b>Clinical parasitology</b>							
<b>10. Course overview:</b>								
Parasitology has many important goals are:-								
1-Understanding types of pathogenic parasites								
2- common clinical cases								
3- To provide basis for treating .								
<b>11-Course objectives:</b>								
Learning and Interpretation on the various types of medical parasite which affect human health and modes of its laboratory and clinical diagnosis								
<b>12. Student's obligation</b>								
During the course the students must attend all lectures ,								
• every lecture must prepare themselves for quiz ,								
• preparing seminars about the various parasitic cases (infection / infestation)								
+new cases (clinical cases)								
.....								
<b>13 Forms of teaching .</b>								
Power point and data show								
White board								
Microscope and glass slides								
<b>14. Assessment scheme</b>								
<b>لیستی داخل کردنی نمره ی قوتابیائی قوناغی چوارهم بهشی شیکاری نه خوشیه کان 2023 - 2202</b>								
ناوی ماموستای وانه:								
ناوی وانه:								
Total60%	<b>Activities</b>				<b>Midterm Examinations</b>		ناوی سیانی قوتابی	ژماره
	homework 10%	Seminar 10%	Attendance 5%	Quiz 5%	Practical 20%	Theory 10%		
<b>This field may changeable depending on system</b>								

%40 final examination

**15. Student learning outcome:**

- 1-clinical cases of parasitic infection/infestation.
- 2-methods of parasite identification
- 3-basic strategies for its controlling and treatment.

**16. Course Reading List and References:**

Medical Parasitology A Textbook, Rohela Mahmud Yvonne Ai Lian Lim • Amirah Amir, 2017

**17. The Topics:**

**Theory syllabus**

<b>week</b>	<b>Detailed syllabus</b>
1 <sup>st</sup>	Introduction to clinical parasitology
2 <sup>nd</sup>	1-Ameboma, 2-Intestinal and extra intestinal amebiasis , molecular pathogenicity and immune response.
3 <sup>rd</sup>	Common flagellate parasites, Intestinal flagellates, giardiasis. molecular pathogenicity and immune response.
4 <sup>th</sup>	Urogenital flagellates, Trichomonas vaginitis, its immune response and molecular pathogemicity.
5 <sup>th</sup>	Haemflagellates and tissue flagellates. (Chagas diseases, visceral, cutaneous and mucocutaneous leshmaniasis). molecular pathogenicity and immune response.
6 <sup>th</sup>	Sporozoans, malarialiasis, toxoplasmosis and congenital toxoplasmosis molecular pathogenicity and immune response.

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7th	Helminthology Nematodes, Entrobiasis and Ascariasis
8th	Cestodes 1-Taeniasis Taenia saginata and Taeniasis solium 2-Cysticercosis 3-Echinococcus hydatosis 4- Diphylobothriosis, pernicious anaemia
9	rectal prolapse nematodes, Trichurus , ground itching (anchor worm)
11	Trematodes, monogenean, intestinal and liver flukes.
12	Trematodes, digenea, bilharzia
13	Vector born diseases
14	Seminar
15	Final evaluation

**Practical part**

week	Detailed syllabus
1st	Terms in lab. diagnosis , Type of samples and lab techniques for detecting stage of parasites, Trophozoite and cyst of protozoa parasites (Laboratory diagnosis of parasites).
2nd	Molecular based identification of parasites
3rd	Bioinformatics related to parasite diagnosis.
4th	ELISA and IFA
5th	Describe basic morphological properties of all protozoans stage
6th	White test , entero test and xenodiagnoses test.....
7 <sup>th</sup>	Type of worm diagnosis, (nanotechnology based method)
8 <sup>th</sup> and 9	GSE and Concentration techniques
10th	Morphological characters of cestodes

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19.	11th	Morphological diagnosis of nematodes
	12th	Blood smear and Serological diagnosis of parasites
	13 <sup>th</sup>	Pseudo parasites
	14th	Labe. Report
	15th	Final evaluation

Examinations:

Type of question	Example
Multiple choice	
Short answer	zQ/ Explain the following: 1-cathepsin 2- alpha giardin
Matching pairs	Match the following statements in the column A with the definitions in the column B:
Definition and explain	Define the following terms: 1-host 2- hypnozoit
Problem situation	
Quiz	

21. Peer review

پیداچوونہوہی ھاوہل

This course book has to be reviewed and signed by a peer. The peer approves the contents of your course book by writing few sentences in this section.

(A peer is person who has enough knowledge about the subject you are teaching, he/she has to be a professor, assistant professor, a lecturer or an expert in the field of your subject).

نہم کورسبووکه دهبیت له لایمن ھاو ملکی نهکادیمیوه سهیر بکریت و ناوهرۆکی بابتهکانی کورسهکه پهسهند بکات و جهند وشهیهک بنوسنیت لهسه شیاوی ناوهرۆکی کورسهکه و واژووی لهسه بکات.

ھاوہل نهو کهسهیه که زانیاری ههبنیت لهسه کورسهکه و دهبیت پلهی زانستی له ماموستا کهمتر نهبنیت.

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## Course Book