

جامعة القادسية

كلية الطب

فرع الاحياء المجهرية

نموذج وصف المقرر

وصف المقرر

يوفر وصف المقرر هذا إيجازاً مقتضياً لأهم خصائص المقرر ومخرجات التعلم المتوقعة من الطالب تحقيقها مبرهنأ عما إذا كان قد حقق الاستفادة القصوى من فرص التعلم المتاحة. ولا بد من الربط بينها وبين وصف البرنامج؛

كلية الطب/جامعة القادسية College of Medicine /AL-Qadisiyah University	1. المؤسسة التعليمية
Medical Microbiology الاحياء المجهرية	2. القسم العلمي / المركز
MPA366 Medical Parasitology	3. اسم / رمز المقرر
	4. أشكال الحضور المتاحة
الفصل الأول والفصل الثاني 2016/2015	5. الفصل / السنة
4 ساعات اسبوعياً	6. عدد الساعات الدراسية (الكلي)
2017	7. تاريخ إعداد هذا الوصف
<u>Aim of the Course</u>	8. أهداف المقرر
1.To provide students with knowledge concerning biological, epidemiological and ecological aspects of parasites causing diseases to humans.	
2.To enable students to understand the pathogenesis, clinical presentations and complications of these diseases.	
3.To enable students to reach diagnosis and know the general outline of treatment, prevention and control of parasitic infections.	
4.To provide students with adequate knowledge about endemic parasites and national parasitic problems.	

**(Intended Learning Outcome)****10. مخرجات المقرر وطرائق التعليم والتعلم والتقييم****Knowledge and Understanding****أ- الأهداف المعرفية**

1. Describe the world distribution of important parasitic infections and explain the factors determining such distribution and their socioeconomic impact on the community.
2. Describe the morphology and life cycle of parasites of medical importance.
3. Describe pathogenesis, clinical signs and symptoms and complications of parasitic infections.
4. Outline the treatment for various parasitic infections and mention the methods of prevention and control of infection on individual and community levels.
5. Discuss the methods of recovery of parasites from environmental samples and their culture methods.
6. Describe common arthropods of medical interest and explain their medical importance and methods of combat.
7. Outline fundamental immunology and molecular biology applicable in parasitology to achieve better and accurate diagnosis.
8. Enumerate complications associated with manipulation of infectious materials, relevant to parasitology, especially in hospitals.

**Practical Skills.****ب - الأهداف المهاراتية الخاصة بالمقرر**

1. Identify microscopically different parasites as well as their different stages (eggs, cysts and larvae) or any of their body parts (segments, hooks and scolices) in urine or stool samples.
- 2- Diagnose haemoparasites detectable in blood films.
- 3- Identify parasites and their different stages through examination of mounted slides.
- 4- Identify different parasites in tissue sections and demonstrate their reactions in such tissues by naked eye.
- 5- Identify arthropods of medical importance through examination of whole body or any part in mounted specimens.

**Teaching and Learning Method****طرائق التعليم والتعلم**

- Lectures
- Practical classes (laboratory training)

**Students Assessment****طرائق التقييم**

**Written examination:** Assessment of knowledge and understanding. Also intellectual skills

**Practical examination:** Assessment of knowledge and understanding and professional skills

**General Intellectual Skills****ج- الأهداف الوجدانية والقيمية**

- 1- Interpret the most important signs and symptoms of important parasitic infections of endemic character (using case study).
- 2- Choose the best-suited laboratory investigations for each parasite and interpret the clinical and laboratory findings to reach a proper diagnosis.

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**طرائق التقييم**

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د - المهارات العامة والتأهيلية المنقولة ( المهارات الأخرى المتعلقة بقبالية التوظيف والتطور الشخصي ).

### **General skills & Attitudes**

- 1- React positively with any parasitic problem on a national level. i.e. Bilharziasis or filariasis.
- 2- Work in a multi disciplinary health care team to solve parasitic problems in the community
- 3- Respect the role of staff and co-staff members regardless of degree or occupations.

**I : Introduction to parasitology :**

-Host-parasite relationships – types of parasites – types of hosts.

**II :Protozoology :**

-Introduction to medical protozoology

A- Intestinal protozoa : Entamoeba histolytica –Commensal amoebae –Balantidium coli –

Giardia lamblia –Cryptosporidium parvum –Cyclospora cytanensis –Isospora belli

B–Urogenital protozoa : Trichomonas vaginalis

C–Blood protozoa : Plasmodium species –Babesia

D–Blood & tissue protozoa :Leishmania – Trypanosomes –Toxoplasma gondii –

Potentially pathogenic free living amoebae –Microsporidia

**III : Introduction to nematodes**

A- Intestinal nematodes : Ascaris lumbricoides –Trichuris trichiura-Enterobius vermicularis-

Hook worms –Trichostrongylus colubriformis –Strongyloides stercoralis –Capillaria

philippinensis –Trichinella spiralis

B–Tissue nematodes : Dracunculus medinensis –Wuchereria bancrofti –Brugia malayi –Loa loa

– Onchocerca volvulus –Mansonella ozzardi -Mansonella perstans – Larva migrans

(visceral and cutaneous).

**IV : Helminthology**

-Introduction to trematodes

Fasciola species-Heterophyes heterophyes –Paragonimus westermani-

Schistosoma species.

-Introduction to cestodes

Diphyllobothrium species-Taenia species–Echinococcus species –Multiceps

multiceps –Hymenolepis species –Dipylidium caninum

**V : Immunology and molecular parasitology**

-As regards types of immunity, mechanisms, vaccination, immunopathology of parasitic infections, parasite immune evasion and immunodiagnosis of parasitic infections.

-Molecular parasitology as regards applications of molecular technology in parasitology.

**Practical Classes:**❖ **Protozoology****\* Microscopic slides:**

- Stages of the parasite stained with different stains.
- Stages of the parasite in biological specimens

❖ **-Helminthology :****\* Microscopic slides:**

- Mounts for adult parasite & its body parts (hooks, scolices or segments).
- Mounts for parasitic stages (eggs, larvae or cysts).

**Facilities used for teaching this course include**

## 12. البنية التحتية

1-Lecture halls

2-Equiped labs with microscopes, slide projectors, overhead projectors and data show.

3-Faculty library can be used for projects and textbooks

Department Books -Text Book -Practical Book -Atlas -Self evaluation guide (book) ·CD-ROM containing illustrated topics in parasitology (animated parasitology).	1- الكتب المقررة المطلوبة
Jwatez medical microbiology	2- المراجع الرئيسية (المصادر)
Parasitological & Tropical Journals • Text books	ا- الكتب والمراجع التي يوصى بها المجلات العلمية , التقارير , .... )
<b>International Web site</b> <a href="http://www.asp.unl.edu">http://www.asp.unl.edu</a> Official website of the American Society of Parasitologists. Offer information about the society and its activities as well as links to relevant parasitological sites. <a href="http://www.parasitology.org.uk">http://www.parasitology.org.uk</a> Official website of the British Society for Parasitology. Offer information about the society and its activities as well as links to relevant parasitological sites. <a href="http://www.dpd.cdc.gov/dpdx">http://www.dpd.cdc.gov/dpdx</a> Useful site for the identification and diagnosis of parasites of public health concern. It provides information about life cycle, geographical distribution, clinical features, diagnosis and treatment for each of the parasites listed. It also includes a parasite image gallery.	ب - المراجع الالكترونية, مواقع الانترنت ....

	13. خطة تطوير المقرر الدراسي
<ol style="list-style-type: none"> <li>1.Focus on host- parasite relationship, causal relationship, critical thinking and scientific integrity.</li> <li>2. Applied Parasitology and safe handling: ethical issues and responsibilities.</li> <li>3. Reporting and communicating: 2 ways channel.</li> <li>4. Categorizing according to taxonomy and self learning.</li> </ol>	

اعداد

ا.م.د. منال محمد كاظم

ا.د. عدنان حمد عبيد الحمداني