



MEDICAL PARASITOLOGY DEPARTEMENT Master Degree Program Specification





Benha University
Faculty of Medicine
Medical Parasitology Department

Program Specification of Master Degree of Medical Parasitology (2013-2014)

A. Basic informations:

أ) معلومات أساسية:

1-Program title: Master of Medical Parasitology

2-Program type: Single

3-Responsible Departments: Medical Parasitology Department.

4-Date of approval by Parasitology Department council: 2 /9 /2013.

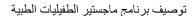
5- Date of approval by Faculty council: 15 / 9/2013.

5-Program coordinator: Prof. Dr Amany Farouk El Fakahany.

6-Internal evaluation of the program: Prof .Dr. Hassan Ahmed Hamadto Prof. of parasitology, Benha university.

6-External evaluation of the program: Prof. Dr Nashaat Abd El

Monem Nasef. Professor of Parasitology, Menofia University.







B. Professional Informations:

ب) معلومات تخصصية:

1. Overall Aims of the program

١-الأهداف العامة للبرنامج:

The overall goals of the program are to:

- Provide the postgraduate students with essential knowledge of medical parasitology.
- Acquire skills necessary for applying the scientific analytic methods in medical parasitology using available resources and saving environment.
- Recognize ethical principles related to the practice in this specialty.
- Access active participation in community needs assessment.
- Reach active participation in problems identification and solving.
- Maintain learning abilities necessary for continuous medical education.
- Have the ability to teach and train others.
- Have the ability to develop themselves in the field of medical Parasitology.
- Upgrade self-learning.
- Use modern technological aids.
- Perform research abilities necessary for continuous professional development.

2- Intended Learning Outcomes (ILOs) مخرجات التعلم المستهدفة:

2.a. Knowledge and Understanding:

By the end of the program, the graduate should be able to:

2.a.1. Assess basic concepts of parasitism; terminology, geographical distribution, morphology, life cycles, transmission, pathology, pathogenesis, clinical picture, host parasite relationship, treatment, prevention and control of parasitic diseases.





- 2.a.2. Differentiate medically important vectors and snails and how to examine for parasites.
- 2.a.3. Investigate different parasitological specimens and how to prepare permanent preparations.
- 2.a.4. Describe basic principles of direct methods of diagnosis as well as immunological methods of diagnosis and carry out them.
- 2.a.5. Discuss basis of environmental parasitology.
- 2.a.6. Illustrate details of right ethical & legal practice.
- 2.a.7. Recognize basics and essentials of medical quality control.
- 2.a.8. Explain basics of scientific knowledge essential for following the rules of medical research ethics.

2.b. Intellectual skills:

By the end of the program the graduate should be able to:

- 2.b.1. Analyze given parasitological information.
- 2.b.2. Investigate different parasitological problems (identification, diagnosis, treatment) in absence of adequate data.
- 2.b.3. Construct different knowledge to help in solving difficult problems.
- 2.b.4. Design a research study that add to the existing specialty knowledge.
- 2.b.5. Distinguish the danger of handling and use of infectious agents on community and environment as a part of their ethical heritage.
- 2.b.6. Plan for development in the performance in diagnosis of parasitic disease and its application for community development.
- 2.b.7. Apply appropriate professional decisions, in different situations.

2.c. Practical skills

By the end of the program, the graduate should be able to:





- 2.c.1 apply direct diagnostic examination of specimens and carry out different staining methods.
- 2.c.2 Identify medically important parasites based on microscopic examination of stained preparations.
- 2.c.3 Differentiate diagnostic tests commonly used for parasitic infections.
- 2.c.4 Judge results of parasitological, serological and molecular tests and apply them .
- 2.c.5. Evaluate different parasitological tools and diagnostic methods.

2.d. General & transferable skills

By the end of the program, the graduate should be able to:

- 2.d.1. Communicate effectively using all methods.
- 2.d.2. Use information technology to improve his/her professional practice.
- 2.d.3. Perform self-appraisal & seek continuous learning.
- 2.d.4. Use different sources of information to obtain data.
- 2.d.5. Teach and evaluate others.
- 2.d.6. Work as team leader as well as a member in larger teams.
- 2.d.7. Manage scientific meetings and appropriately utilize time.
- 2.d.8. Continue self-learning.

3. Academic Standards:

٣- المعايير الاكاديمية للبرنامج:

Academic standards for MD parasitology program in Benha Faculty of Medicine





4. Reference standards (Benchmarks):

٤. المعايير المرجعية:

a) Academic references standards(ARS) for MD program issued by the National Authority for Quality Assurance & Accreditation OF education (March 2009)

المعايير القياسية العامة لبرامج الدكتوراه الصادرة عن الهيئة القومية لضمان الجودة والاعتماد (مارس ٢٠٠٩) ملحق٢.

b) Academic Reference Standards for Accreditation council for Graduate Medical Education (CGME) and Megill University Msc and PhD Thesis Parasitology programs (Benchmarks)، ملحق ۳

5. Program structure and contents:

٥ - هيكل ومكونات البرنامج:

a. Program duration: four semesters.

- 1st part: one semester

- 2nd part: two semesters.

- Thesis: two semesters (starts after 2nd semester).

b. Program structure:

- Total hours of the program: 41 credit hours

- Theoretical: 25 credit hours.

- Practical: 11 credit hours.

- Log book: 15 credit hours.

- Thesis: 15 credit hours.

- University and College requirements: 6 credit hours.





c. Level and courses of the program:

Item	Courses	Code	Credit
			hours
University requirements:	-3 computer training couses.		3 hours
	-TOEFL exam		
Faculty requirements:	- A compulsory Course: Statistics,	PARA 600	3 hours
	computer science and research		
	methodology.		
First Part:	- Microbiology and Immunity	PARA601	3 hours
- 2 courses required	- Pathology	PARA602	3 hours
-	- Clinical Pathology	PARA603	3 hours
	Biochemistry	PARA604	3 hours
	- Public health & Community Medicine	PARA605	3 hours
	- Tropical Medicine	PARA606	3 hours
Log book	- Participation and attendance of		6 hours
	seminars and training courses,		
	conferences and Theses discussion.		
	- Preparation of permanent prepared		
	parasites specimens.		
	- Handout illustrations booklet of		
	practical lessons.		
Second part	1-Advanced Helminthology	PARA 607	17 hours
	2- Advanced Protozoology	PARA 608	
	3-Advanced Entomology	PARA 609	
	4- Advanced Immunology and Molecular		
	Biology of Parasitic infections.	PARA 610	
	5-Advanced Diagnostic techniques for		
	parasitic infections& prevention methods.	PARA 611	
Thesis			6 hours
Total			41 hours







Faculty requirement:

a- Compulsory course:

a mu	Course Code -	NO. of Tea	Total teaching		
Course Title		Theoretical	Practical	Total/ Week	
- Statistics, computer science and research methodology.	PARA600	2	3	5	75

b. Elective courses: nonec. Selective courses: none

First part (one semester):

a- Elective courses: (choose 2 courses)

		NO. of Tea	Total		
Course Title	Course Code			teaching	
Course Title	Course Code	Theoretical	Practical	Total/	hours
				Week	/semesters
- Microbiology and Immunity	PARA601	4	3	7	105
- Pathology	PARA602	4	3	7	105
- Clinical Pathology	PARA603	2	6	8	120
- Biochemistry	PARA604	4	3	7	105
- Public health & Community Medicine	PARA605	4	3	7	105
- Tropical Medicine	PARA606	4	3	7	105
•					

b- Compulsory courses: none c- Selective courses: none

Second part:

PARA607 units	Teaching	Teaching of hours per week				
	Theoretical	Laboratory	Total	teaching		
		/practical	credits	hours/2		
				semesters		
1- Advanced Helminthology	1	3	4	120		
2- Advanced Protozoology	1	3	4	120		
3- Advanced Entomology	1	3	4	120		
4- Advanced Immunology and	1	-	1	30		
Molecular Biology of Parasitic						
infections.						
5- Advanced Diagnostic techniques	1	1.5	2.5	75		
for parasitic infections& prevention						
methods						
Total	5	10.5	15.5	465		





7. محتويات المقررات (راجع توصيف المقررات ملحق ٦) - 6. Courses contents:

7. Program admission requirements: "- متطلبات الالتحاق بالبرنامج:

يشترط لقيد الطالب لدرجة الماجستير:

أ) أن يكون حاصلا على درجة البكالوريوس في الطب والجراحة من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة لها من معهد معترف به بتقدير جيد على الأقل.

- ب) أن يكون قد أمضى السنة التدريبية أو ما يعادلها (سنة الامتياز).
- ج) أن يتفرغ للدراسة لمدة فصلين دراسيين على الأقل في الجزء الثاني.

8. Progression in the program: ٨. القواعد المنظمة لاستكمال البرنامج يشترط في الطالب لنيل درجة الماجستير في العلوم الطبية الأساسية تخصص الطفيليات الطبية ما يلي:

- •حضور المقررات الدراسية بصفة مرضية طبقا للساعات المعتمدة.
- أن يقوم ببحث في موضوع تقره الجامعة بعد موافقة مجلس الكلية والقسم لمدة فصليين دراسيين
 على الأقل. وأن يتقدم بنتائج البحث في رسالة تقبلها لجنة الحكم بعد مناقشة علنية للرسالة.
- اجتياز الطالب ثلاث دورات في الحاسب الآلي (دورة في مقدمة الحاسب الألى دورة تدريبية " متوسطة " دورة في تطبيقات الحاسب الألى) وذلك قبل مناقشة الرسالة.
 - اجتياز الطالب اختبار التويفل بمستوى لا يقل عن ٥٠٠ وحدة وذلك قبل مناقشة الرسالة.
 - أن يجتاز بنجاح الاختبارات التحريرية والعملية والإكلينيكية والشفهية المقررة وفقا لما هو مبين باللائحة.

9. Assessment Methods: ٩. طرق وقواعد تقييم الملتحقين بالبرنامج:

مخرجات التعلم المستهدفة	الوسيلة	م
To assess knowledge, understanding & intellectual skills.	Written	1
2.a.12.a.14& 2.b.12.b.12	examination	
To assess knowledge, understanding, intellectual skills &	Oral examination	2
General & transferable skills		
2.a.12.a.14& 2.b.12.b.12& 2.d.12.d.7		
To assess knowledge, understanding, intellectual skills,	Practical	3
practical & General & transferable skills	examination	
2.a.12.a.14& 2.b.12.b.12& 2.c.12.c.7& 2.d.12.d.7		
To assess knowledge, understanding, intellectual skills,	Thesis discussion	4
practical & General & transferable skills		
2.a.12.a.14& 2.b.12.b.12& 2.c.12.c.7& 2.d.12.d.7		
To assess knowledge, understanding, intellectual skills,	Logbook	5
practical & General & transferable skills		
2.a.12.a.14& 2.b.12.b.12& 2.c.12.c.7& 2.d.12.d.7		





الجزء الأول

	الدرجة				
إجمالي	عملي/ إكلينيكي	شفهي	تحريري	الاختبار	المقرر
۲٥.	٨٠	0.	١٢.	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي وعملي	ميكروبيولوجيا
۲٥.	۸۰	٥,	١٢.	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي وعملي	باثولوجي
۲٥.	٨٠	٥,	17.	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	باثولوجيا إكلينيكية
۲٥.	۸۰	0.	١٢.	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	كيمياء حيوية
۲٥.		0.	۲.,	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	طب مجتمع
70.	٨٠	٥,	17.	اختبار تحريري مدته ثلاث ساعات+ اختبار شفهي وإكلينيكي	طب المناطق الحارة

Second part

bccon	a part						
إجمالي	اسم الاختبار والدرجة			المقرر			
الدرجة	عملي	شفوي	تحريري				
10.	٣٧،٥	٣٧،٥	٧٥	1- Advanced Helminthology			
+	+	+	+	+			
10.	٣٧،٥	TV.0	٧٥	2. Advanced Protozology			
١	70	70	٥,	3. Advanced Entomology			
+	+	+	+				
١	-	٥,	٥,	4. Advanced Immunology and Molecular			
				Biology of Parasitic infections			
+	+	+	+				
١	70	70	٥,	5. Advanced Diagnostic techniques for			
				parasitic infections & prevention methods			
٦٠٠	170	140	٣				

كتاب الأنشطة: يشترط أن يستوفي الطالب الشروط والقواعد المنظمة والمعتمدة والمعلنة من مجلس قسم الطفيليات.





8. Evaluation of the program

Evaluator	Tools	Sample
Internal evaluator (s)	Focus group discussion	1-2 reports
مقییم داخلی	Meetings	
External Evaluator (s)	Reviewing according to	1-2 reports
مقییم خارجی	external evaluator	
	checklist reporting.	
Senior student (s)	Questionnaire meeting.	جميع الطلبه
طلاب السنة النهائية		
Alumni	Questionnaire meeting.	عينه تمثل ٥٠% من اخر
الخريجون		۳ دفعات
Stakeholder (s)	Questionnaire meeting.	عينه ممثله لجميع جهات
أصحاب العمل		العمل

Program coordinator.

Prof. Dr Amany Farouk El Fakahany.

Signature: Amany Farouk El Fakahany

date: 15/9/2013

الملحقات:

ملحق ١: المعايير الأكاديمية لبرنامج الماجستير في الطفيليات بكلية طب بنها

Academic standards for Msc. parasitology program in Benha Faculty of Medicine

ملحق ٢: المعايير القياسية العامة لبرامج الماجستير الصادرة عن الهيئة القومية لضمان الجودة والاعتماد (٢٠٠٩)

Generic academic standards ,which where issued by the National Authority For Quality Assurance &Accreditation .

ملحق ٣: المعايير المرجعيه الخارجيه (Benchmarks)

ملحق ٤: مصفوفة مضاهاة المعايير الأكاديمية لبرنامج الماجستير الصادرة عن الهيئة القومية لضمان الجودة والاعتماد مع المعايير الأكاديمية لبرنامج دكتوراه الطفيليات لكلية طب بنها ملحق ٥: مصفوفة مضاهاة المعايير الأكاديمية الماجستير الطفيليات لكلية طب بنها مع اهداف ونواتج تعلم البرنامج

ملحق ٦: Program-Courses ILOs Matrix ملحق ٦: ملحق ٧ توصيف المقررات





(ملحق ۱)

Academic Standards for Master Parasitology Program in Benha Faculty of Medicine

المعايير الأكاديمية لبرنامج ماجستير الطفيليات بكلية طب بنها

1. Graduate specifications:

- 1.1. Mastering the detailed basic and advanced knowledge and research methodologies used in the field of parasitology.
- 1.2. Mastering professional skills essential for working in the field of parasitology.
- 1.3. Competent to apply the analytical methods and critic the knowledge in the field of medical parasitology and related fields.
- 1.4. Proficiently integrate specialized parasitology knowledge with relevant knowledge and develop bilateral relations.
- 1.5. Show deep awareness of current problems and theories in the marginal area of medical parasitology.
- 1.6. Identify problems professionally and find innovative solutions to solve them.
- 1.7. Able to make decision according to the available information.
- 1.8. Communicate effectively and able to lead teamwork in various professional contexts.
- 1.9. Manage the available resources efficiently, develop and work to sustain the available and find new resources.
- 1.10. Have ongoing commitment to self-development and continuous self-learning.
- 1.11. Aware of his role in community serving and preservation of the environment.
- 1.12. Behave with commitment, credibility, integrity and following the professional and ethical skills.

Standards:

- **2. Knowledge and understanding:** By the end of the program, the candidate should be able to
- 2.1. describe basic concepts of parasitism; terminology, geographical distribution, morphology, life cycles, transmission, pathology, pathogenesis, clinical picture, host parasite relationship, treatment, prevention and control of parasitic diseases.
- 2.2. Differentiate medically important vectors and snails and how to examine for parasites.
- 2.3. Recognize parasitological specimens and how to prepare permanent preparations.
- 2.4. Define principles of direct methods of diagnosis as well as immunological methods of diagnosis and carry out them.
- 2.5. Know basis of environmental parasitology.





- 2.6. Know the physiology of the immune system, its detailed components, function of each, its beneficial role, its interaction with tumors, its deficiency conditions, as well as its detrimental role in hypersensitivity, autoimmunity in different localities.
- 2.7. Recognize hospital acquired parasitic infections, types, causative organisms, prevention and control.
- 2.8. Study details of recent diagnostic methods and antiparasitic chemotherapy.
- 2.9. Define antiparasitic vaccines.
- 2.10. Know impact of molecular technology in Parasitology and immunology.
- 2.11. Define details of right ethical & legal practice.
- 2.12. Recognize basics and essentials of medical quality control.
- 2.13. Know proper design, conduction & publishing of scientific research.
- 2.14. Gain basis of scientific knowledge essential for following the rules of medical research ethics.
- **3. Intellectual skills:** *By the end of the program the candidate should be able to:*
- 3.1. Analyze, deduce, extrapolate & evaluate given parasitological problems and innovative solution for it.
- 3.2. Interpret parasitological, immunological and molecular reports.
- 3.3. Formulate a systematic approach for laboratory diagnosis of the infectious clinical conditions and select the most appropriate and cost-effective tool leading to the identification of the causative organism.
- 3.4. Evaluate according to evidence, the causal relationship of parasites and diseases.
- 3.5. Solve different parasitological problems (identification, diagnosis, treatment) in absence of adequate data.
- 3.6. Join different knowledge to help in solving difficult problems.
- 3.7. Design a research study that add to the existing specialty knowledge
- 3.8. Plan for development in the performance in diagnosis of parasitic disease and its application for community development.
- 3.9. Plan professional development courses to improve practice and enhance performance of juniors.
- 3.10. Appreciate the danger of handling and use of infectious agents on community and environment as a part of their ethical heritage.
- **3.11.** Make appropriate professional decisions, in different situations.
- **4.** Professional & Practical skills: By the end of the program the candidate should be able to:





- 4.1. Perform direct diagnostic examination of specimens and carry out different staining methods.
- 4.2. Identify medically important parasites based on microscopic examination of stained preparations.
- 4.3. Identify different diagnostic tests commonly used for parasitic infections.
- 4.4. Interpret, assess and evaluate results of parasitological, serological and molecular tests and apply it.
- 4.5. Write and evaluate reports about parasitological issues.
- 4.6. Evaluate and improve methods and tools used in specialty.
- 4.7. Use molecular technology to advance practice.
- **5.** General & transferable skills: By the end of the program the candidate should be able to:
- 5.1. Communicate effectively using all recent methods
- 5.2. Use advanced information technology to improve his/her professional practice
- 5.3. Teach and evaluate others.
- 5.4. Perform self-appraisal & seek continuous learning
- 5.5. Use new sources of information to obtain data
- 5.6. Work as team leader as well as a member in larger teams
- 5.7. Establish rules and standards to evaluate others
- 5.8. Appropriately utilize time.





ملحق ۲

Academic standards for Master Program issued by the National Authority for Quality Assurance & Accreditation of education (March 2009)

المعايير القياسية العامة لبرامج الماجستير الصادرة عن الهيئة القومية لضمان الجودة والاعتماد (مارس ٢٠٠٩)

برامج الماجستير

١- موصفات الخريج

خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:

- ١-١ إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة
 - ٢-١ تطبيق المنهج التحليلي واستخدامه في مجال التخصص
- ٣-١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في مماسته المهنية
 - ١-٤ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص
 - ١-٥ تحديد المشكلات المهنية وإيجاد حلول لها
- 1-1 إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
 - ١-٧ التوصل بفاعلية والقدرة على قيادة فرق العمل
 - ٨-١ اتخاذ القرار في سياقات مهنية مختلفة
 - ٩-١ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
- ١٠-١ إظهار الوعى بدوره فى تنمية المجتمع والحفاظ على البيئة فى ضوء المتغيرات العالمية والاقليمية
 - ١١٠١ التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة
 - ١٢٠١ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر
 - -2 المعايير القياسية العامة
 - ١-١ المعرفة والفهم:
 - بأنتهاء دراسة برنامج الماجيستير يجب ان يكون الخريج على فهم ودراية بكل من:
 - ١-١-١ النظريات والاساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة
 - ٢-١-٢- التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
 - ٢-١-٣ التطورات العلمية في مجال التخصص





٢-١-٤ المبادئ الإخلاقية والقانونية للممارسة المهنية في مجال التخصص

٢-١-٥ مبادئ واساسيات الجودة في الممارسة المهنية في مجال التخصص

٢-١-٦ اساسيات واخلاقيات البحث العلمي

٢-٢ المهارات الذهنية:

بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:

٢-٢-١ تحليل وتقيم المعلومات في مجال التخصص والقياس عليها لحل المشاكل

٢-٢-٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات

٣-٢-٢ الربط بين المعارف المختلفة لحل المشاكل المهنية

٢-٢-٤ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية

٢-٢-٥ تقييم المخاطر في الممارسات المهنية في مجال التخصص

٢-٢-٢ التخطيط لتطوير الاداء في مجال التخصص

٢-٢-٧ اتخاذ القرارات المهنية في سياقات مهنية متنوعة

٢-٣ المهارات المهنية

بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:

٢-٣-١ اتقان المهارات المهنية الإساسية والحديثة في مجال التخصص

٢-٣-٢ كتابة وتقييم التقارير المهنية

٣-٣-٢ تقييم الطرق والادوات القائمة في مجال التخصص

٢-٤ المهارات العامة والمنتقلة:

بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:

٢-٤-١ التواصل الفعال بأنواعه المختلفة

٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية

٢-٤-٣ التقييم الذاتي وتحديد احتياجاته التعليمية

٢-٤-٤ استخدام المصادر المختلفة لحصول على المعلومات والمعارف

٢-٤-٥ وضع قواعد ومؤشرات تقييم اداء الأخرين

٢-٤-٢ العمل في فريق سياقات كهنية مختلفة

٢-٤-٧ ادارة الوقت بكفاءة

٢-٤-٨ التعلم الذاتي والمستمر





ملحق رقم ٤

مصفوفة مضاهاة المعايير الأكاديمية لبرنامج الماجستير الصادرة عن الهيئة القومية لضمان الجودة والاعتماد مع المعايير الأكاديمية لبرنامج ماجستير الطفيليات لكلية طب بنها

، بنها	ليات لكلية طب	لبرنامج دكتوراه الطفي	معايير الأكاديمية	71	درة عن الهيئة	المعايير الصاد
٢,٤. المهارات	۲٫۳ المهارات	٢,٢ المهارات الذهنية	١,٢ المعارف	۱.	مان الجودة	
العامة والمنقولة	المهنية		والفهم	مواصفات		والاعتماد
				الخريج		m1: 1 1
) .) ~ `\	1-1 7-1	۱ ـمواصفات
				۲.۱ ٤.۱	γ-1 γ-1	الخريج
				0 1	٤-١	
				٦ ,	0_1	
				1. ° 1. 7 1. 7	7_1	
				۸.۱	V_1	
				Λ.\ Υ.\ ٩.\	۸_۱	
					9_1	
)).)	1 • - 1	
				17.1)	
				' • . '	1 1 - 1	
			۲. ۱-۱		1-1-7	1-7
			7.0+7.7		7-1-7	المعارف
			۲. ۲		7-1-7	والفهم
)		£-1-7 0-1-7	
			17 7		7_1_7	
		7 +7 7+ 7			1_7_7	7_7
		٤			7_7_7	المهارات
		۰ ۳.			٣_٢_٢	الذهنية
		٦.٣			£_Y_Y	
		۷ .٣+ ٣,٣			0-7-7	
		1 · . " 9 <u>-</u> A . "			7_7_7 7_7_7	
		11.5			V = 1 = 1	
		''.'				
	٧+٤-١.٤				1_4-7	٣-٢
	٥.٤				7_7_7	المهارات
	٦ .٤				٣_٣_٢	المهنية
1.0					1-8-7	٤-٢
٥. ٢					7-8-7	المهارات
٥. ٤					٣-٤-٢	العامة
0.0					٤-٤-٢	والمنقولة
٥. ٧					0_{5_7	
٠.٥					7_ £_ Y V_ £_ Y	
7.0					ν-ε-۱ Λ-ε-Υ	
' .					71-4-1	





ملحق ه مصفوفة مضاهاة مواصفات الخريج والمعايير الأكاديمية لبرنامج ماجستير الطفيليات لكلية طب بنها مع الأهداف العامة ونواتج التعلم المستهدفة للبرنامج

نواتج التعلم المستهدفة 2.d. 2.c. 2.b. 2.a. المعارف المهارات ال	لبرنامج اکلیة 1.1.	مواصفات و المعايير الأكاديمية ماجستير الطفيليات طب بنها
والفهم الذهنية المهنية العامة والفهم الذهنية المهنية العامة والمنقولة على المنافولة على المنافولة على المنافولة على المنافولة على المنافولة على المنافولة ا	1.1.	الأكاديمية ماجستير الطفيليات طب بنها
والمنقولة 2.c.1-5 Provide the postgraduate with the	1.1.	ماجستير الطفيليات طب بنها ١
2.c.1-5 Provide the postgraduate with the	1.1.	الطفيليات طب بنها ١
	1.1.	طب بنها
		1
	7-1	مو اصفا
2.c.1-5 3.c.1- medical parasitology research methodologies.		مواصفا ت الخريج
		المصرين
Enable the postgraduate student to apply the analytical methods and critic the knowledge in the field of medical parasitology and related fields.	٣-١	
2.d.4 2.b.3- Integrate specialized knowledge with relevant knowledge and develop bilateral relations.	٤-١	
2.b.3 2.a.1 Show deep awareness of current problems and theories in the marginal area of medical parasitology	0_1	
2.b.1- S Identify problems professionally and find innovative solutions to solve	٦_١	
2.b.5 them to improve community and maintain the environment	11-1	
2.c.4 2.b.2 Able to make decision according to the available information and behave	1-7	
with commitment, credibility, integrity and following the		
2.a.6 professional and ethical skills	1-12	
2.a.8	1-12	
2.d.2 2.d.3 2.d.8 Use of appropriate technological means to serve the professional practice.	1.10	
2.d.1 2.d.5-7 Communicate effectively and lead the team in various professional contexts.	۸_۱	
Employ available resources efficiently, develop and work to find new resources.	9_1	
2.b.7 Have ongoing commitment to self-development and the transfer of knowledge and experience to others.	1 1	





	لم المستهدفة	نواتج التع		البرنامج	أهداف	الخريج	مواصفات
			Y.a.1 2.a.2 2.a.3 2.a.4 2.a.5 2.a.4 2.a.5+7 2.a.1 2.a.1 2.a.4 2.a.6 2.a.7 2.a.8 2.a.8			17777777777777777	٢. المعار ف و الفهم
		2.b.1 2.b.1 2.b.2 2.b.3 2.b.3 2.b.3 2.b.4 2.b.6 2.b.3 2.b.6 2.b.5				1	٣. المهارات الذهنية
	2.c.1 2.c.2 2.c.3 2.c.4 2.c.4 2.c.1-5 2.c.4-5					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ع. المهارات المهنية
2.d.1 2.d.2 2.d.5 2.d.3 2.d.8 2.d.2 2.d.4 2.d.6 2.d.5 2.d.7						10 70 20 20 70 70	ه. المهارات العامة والمنقولة







ملحق ۲ Master Program-courses ILOs matrix:

Courses		A-Knowledge and Understanding								
	A1	A2	A3	A4	A5	A6	A7	A8	A9	
PARA601				1		V	1		V	
PARA602	$\sqrt{}$									
PARA603										
PARA604										
PARA605										
PARA606	$\sqrt{}$						$\sqrt{}$			
PARA607			$\sqrt{}$						$\sqrt{}$	

B-Intellectual skills:

courses	B-Intellectual skills:								
	B1	B2	В3	B4	В5	B6	B7		
PARA601			V		V	V	√		
PARA602			V		V				
PARA603			V						
PARA604			V						
PARA605			$\sqrt{}$						
PARA606			$\sqrt{}$			$\sqrt{}$			
PARA607	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	√		





C.a. Professional & Practical skills C.b. General & transferable skills

Courses	C.a Professional & Practical skills			1	C.b. General & transferable skills										
	Ca1	Ca 2	Ca3	Ca 4	Ca 5			Cb1	Cb2	Cb3	Cb4	Cb5	Cb6	Cb7	Cb8
PARA601			$\sqrt{}$	$\sqrt{}$					$\sqrt{}$			$\sqrt{}$			
PARA602								$\sqrt{}$							
PARA603															
PARA604															
PARA605															
PARA606				$\sqrt{}$	$\sqrt{}$			$\sqrt{}$					$\sqrt{}$		
PARA607		$\sqrt{}$	$\sqrt{}$		$\sqrt{}$			$\sqrt{}$							

D. general skills

Courses				D. ger	neral sk	ills		
	D1	D2	D3	D4	D 5	D6	D7	D8
PARA601		V						$\sqrt{}$
PARA602								
PARA603	1	V						$\sqrt{}$
PARA604	V	V						$\sqrt{}$
PARA605			1	1	V			$\sqrt{}$
PARA606				V			1	
PARA607				V				

توصيف المقررات ملحق ٧







Course Specifications of Clinical Pathology for Master Degree in Medical Parasitology

		١ -بيانات المقرر
المستوى:	اسم المقرر :	البيانات المقرر الكودي:
ماجستير جزء أول	Medical Clinical Pathology	Para603
	عدد الوحدات الدر اسية:	التخصص:
	- نظري: ١ - عملي: ٢	ماجستير الطفيليات
	۔ عملي: ٢	الطبية ٢-أهداف المقر ر
By the end of this co	urse the student should have the professional	٢-أهداف المقرر
knowledge and skil	lls of hematology, immunology, clinical	
chemistry and microb		
specialty.		
	ں المقرر :	٣-المستهدف من تدريس
By the end of the cour	rse, the student should be able to:	
a.1- identify inform	nation about the physiology of blood cells	أ-المعلومات
(RBCs, WBCs and pl	atelets) and homeostasis.	والمفاهيم:
a.2- state information	on about the anatomy of the lymphatic and	
hematopoietic organs	•	
a.3-explain the impo	rtant causes, presentation and management of	
various types of anem	nias.	
a.4- discuss causes,	manifestation and management of bleeding	
and coagulation disor		
-	parasitic diseases in different samples.	
	emical and immunological changes associated	
	especially parasitic diseases.	
-	advances in diagnosing various hematological	
disorders as bone	marrow transplantation, immunological	
treatment.		
_	ivestigations as blood picture, bone marrow	ب-المهارات الذهنية:
	of lymph node, spleen biopsy and tests for	
coagulation disorders		
• • •	ween samples of parasitic infection and other	
samples.		
1	ete hematological examination.	ج-المهارات المهنية الخاصة بالمقرر:
c.2- Perfect different s		الخاصة بالمقرر:
	e urinary, sputum and fecal examinations.	
_	cal tests for detection of parasitic antibodies	
or antigens	1 1 1 1 1 1	
1	nodes, liver and spleen and to know causes	
_	of lymphadenopathy, hepatomegaly, and	
splenomegaly.		7 1 11 - 1 1
d1- Work in a team.	II mild the call to the second	د-المهارات العامة:
	ll with his colleagues, top managers and	
subordinates.	andustina necessales	
as- Use computers in	conducting researches.	





				٤ -محتوى المقرر:
Topics	Hours	Practical	Course ILO's	
	of			
	lectures			
Clinical hematology:	2	2	a1, a2, a3,a5, b1,	
			b2, b3, c1	
- Parasites in blood.	2	2	a1, a2, a3,a5, b1,	
	_	_	b2, b3, c1	
-Anemias:	2	2	a1, a2, a3,a5, b1,	
			b2, b3, c1	
- ERS.	1	1		
- WBCs	2	2	a1, a2, a3,a5, b1, b2,b3, c1	
Normal haemostasis.	2	2	a4,a6	
Disorders of coagulation and				
thrombosis				
Clinical Chemistry:	1	1	a6, a7, b3	
Carbohydrates.				
- Body fluids	4	4	a6, a7, b3	
- Plasma proteins and				
liverdisorders.				
- Kidney function	2	2	a6, a7, b3,c2, c4	
Clinical microbiology:	2	2	a5,a7,b3,c2	
- Parasites in urine and stools	2	2	a5,b3,c2	
- Medically important cases:	2	2	a7,b2, d1,d2,d3	
Clinical immunology:	2	2	a6,a7	
- Diagnosis of infectious	2	2	a5,a6,a7,b1, b2	
diseases			45,46,47,61,62	
- Immunological aspects of	2	2	a6,a7,c4,	
parasitic diseases	_	_	d1,d2,d3	
Small group discussion	าทร	I	,	٥-أساليب التعليم
 Seminars, case study. 				٥-أساليب التعليم والتعلم:
 Semmars, case study. Practical classes	•			
	لا يوجد			٦-أساليب التعليم
				والتعلم لذوي القدرات
				المحدودة:
				المحدودة: " " " " " " " " " " " " " " " " " " "
777				أ-الأساليب
- Written exam.				المستخدمة:
- Oral exam.				
- Practical exam.				
Final exam in May or Noven	nber			ب-التوقيت:
-Written exam.: 120 marks	- (Oral exam	: 50 marks	ج-توزيع الدرجات:
- Practical exam: 80				





- Post graduate Lecture notes prepared by the staff member of the	أ-مذكرات:
department	
6. Basic Clinical Laboratory Techniques, 5th Edition by Barbara	ب-كتب ملزمة:
H. Estridge and Anna P. Reynolds (Jul 10, 2007)	
- Monica(2004): District laboratory practice in Tropical countries.	ج-كتب مقترحة:
- Manual of Medical Laboratory Techniques by	
Ramakrishnan S, Sulochana KN(2012).	
http://www.ncbi.nlm.gov	د-دوريات علمية أو
http://www.google.com	د-دوريات علمية أو نشراتالخ
http://Freemedicaljournals.com	

أستاذ المادة: أ.د. محمود العزوني رئيس مجلس القسم العلمي:





Course Specifications of Biochemistry for MD Degree in Medical Parasitology

		١ -بيانات المقرر					
المستوى:	اسم المقرر:	الرمز الكودي:					
ماجستير جزء أول	Medical Biochemistry	Para 604					
	عدد الوحدات الدراسية:	التخصيص:					
	- نظ <i>ري:</i> ۲ عملي: ۱	ماجستير الطفيليات الطبية					
- By the end of the course, the postgraduate students should be able to have the professional knowledge of the biochemistry that serves in the field of parasitology diseases.							
	المقرر:	٣-المستهدف من تدريس					
By the end of the cours	e, the student should be able to:						
a1- explain the biocher (Anabolic and catabolic	nical importance of intermediary metabolism	أ-المعلومات والمفاهيم:					
a2- discuss the importa	nce of clinical biochemistry						
a3- demonstrate the rol	e of vitamin, Minerals						
a4- explain hormonal a	ction						
b1-Diagnose the affect	ed biochemical deficiency.	ب-المهارات الذهنية:					
b2- Integrate basic biod	chemical and physiological facts with clinical data						
c1- identify the biocher	mical defect	ج-المهارات المهنية					
c2- perform some labor	ratory tests for early diagnosis.	الخاصة بالمقرر:					
C3 diagnose and treat a	as early as possible						
in conducting research	enter biochemistry web sites and self-learning, th and to Collect scientific data. or accurate diagnosis of diseases using internet.	د-المهارات العامة:					





				٤-محتوى المقرر:		
Topics	Lectures	Practical	ILO's covered	٤-محلوى المعرر.		
(1)Biological oxidations	3		a1,a2			
(2) Glycolysis and citric acid ycle:	4	2	a1,a2			
3) Other Pathways	5	2	a1,a2,d2			
(4) Fat metabolism)	5	2	a1,a2,d2,d4			
(5)Protein metabolism:	4	2	a1,a2,b1,b2,b3,c1,c2, d2			
6) Integration of metabolism:- Mechanisms and regulation	2		a1,a2, b1, b2,b3, c1,c2			
7) Metabolism of nucleotides:	3		a1,a2, b1, b2,b3, c1,c2,d1			
8) Porphyrin metabolism and heam biosynthesis and catabolism (9) Mineral metabolism Tissue chemistry	3		a1,a2, a3, b1, b2,b3, c1,c2,d5			
10) Eukaryotic	3	2	a1,a2, b1, b2,b3,			
chromosomes			c1,c2			
(11)Hormones	3		a1,a2,a4. b1, b2, c1			
Small group discusSeminars, case studPractical classes				٥-أساليب التعليم و التعلم:		
	لا يوجد			 ٦-أساليب التعليم والتعلم لذوي القدرات المحدودة: 		
				٧-تقويم الطلاب:		
- Written exam. Oral exa	m.			أ-الأساليب المستخدمة:		
Final exam in May or Noven	nber			ب-التوقيت:		
-Written exam.: 120 marks				ج-توزيع الدرجات:		
- Practical exam: 80 marks						
- Oral exam: 50 marks						
			:	٨-قائمة الكتب والمراجع		
Postgraduate Lecture notes p department.	أ-مذكرات:					
•	1. Biochemistry, Seventh Edition by Jeremy M. Berg, John L. Tymoczko and Lubert Stryer (Dec 24, 2010)					





1. Lehninger Principles of Biochemistry by David L. Nelson and	ج-كتب مقترحة:
Michael M. Cox (Feb 1, 2008)	. 5 . 6
2. Lippincott's illustrated reviews biochemistry, Champe, PC,	
Harvey, RA, 2005	
- http://www.ncbi.nlm.gov/ , http://www.vlib.org/	د-دوريات علمية أو نشراتالخ
- www.genome.ad.jp/kegg/regulation.	لسراكانخ

أستاذ المادة: أ.د. امال ابو الفضل رئيس مجلس القسم العلمي : أ.د. امال ابو الفضل





Course Specifications of Pathology for MD Degree in Medical Parasitology

		١ ـبيانات المقرر
المستوى:	اسم المقرر :	الرمز الكودي:
ماجستير جزء أول	Medical Pathology	Para 602
	عدد الوحدات الدر اسية:	التخصص:
	- نظري: ٢ - عملي: ١	ماجستير الطفيليات الطبية
knowledge and unders genetics as related to the	rse the student should be able to gain the professional tanding of general pathology, special pathology and ne main field of medical Parasitology and can idently interpret the gross and microscopic pathology	٢-أهداف المقرر
	تدريس المقرر :	٣-المستهدف من
By the end of the course, the	ne student should be able to:	
a1- explain the deviation	or change in the normal structure and function	أ-المعلومات
of the body on the macro	o- and micro levels; general pathology.	والمفاهيم:
a2- describe Cellular inju	ary reversible and irreversible, causes, effects	
e.g.		
degeneration, necrosis ar	nd apoptosis (programmed cell death).	
a3- discuss Inflammation	n; causes, classification, fate, complications,	
healing and repair.		
a4-identify Infectious dis	seases; viral, bacterial, fungal and parasitic and	
tissue response to these i	nvaders.	
a5- discuss Immunity, fa	ctors affecting immune response, disorders of	
the immune		
system		
a6- explain Nutritional d	eficiencies and their effects on the body system	
a7- describe Cellular gro	wth disturbances e.g. atrophy, hypertrophy,	
hyperplasia, metaplasia,	and dysplasia.	
. b1- Interpret the data th	rough reading the reports reaching to the	ب-المهارات
pathology		ب-المهارات الذهنية:





		:	ludino				
laboratory along with the biopsies and ex	cised spec	imens, inc	rading				
history, clinical examination, radiological							
other than the histopathology							
c1- demonstrate the gross pathology spec	imens kep	t in the ja	rs and	ج-المهارات			
pictures taken for unavailable gross patho	ology in the	e museum	, put a	المهنية الخاصة			
diagnosis ordifferential diagnosis.				بالمقرر:			
c2- Describe the gross picture of the spec	imens and	deviation	of normal				
regarding the size, site, shape, color local	lized abnor	mality					
c3- deal with the specimens, fixation, trin	nming, pro	cessing, t	issue				
sectioning, hematoxylin and eosin stainin	ng	_					
c4- Prepare and examining the slides by t		ield micro	oscope and				
putting a diagnosis or differential diagnos	C		1				
c5- Use the microscope monitor system in		ng the slid	es in				
groups to reach a result	ii disedssii	ig the sha					
d1- Use standard computer program effective standard computer standard computer program effective standard computer stan	ctively						
1 u1- Osc stanuaru combuter brogram ente							
	J ·			د-المهارات العامة:			
d2- work in a team.	·			-			
d2- work in a team.d3- Use the information technology in se	·	out resent	data in the	-			
d2- work in a team.	·	out resent	data in the	العامة:			
d2- work in a team.d3- Use the information technology in se libraries via the internet.	·	out resent	data in the	العامة: على العامة			
d2- work in a team.d3- Use the information technology in se	arching ab			العامة:			
d2- work in a team.d3- Use the information technology in se libraries via the internet.	arching ab		Practical/	العامة: على العامة			
 d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 	arching ab		Practical/	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury	No. of hours	Lecture	Practical/	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death	No. of hours	Lecture 1 2	Practical/	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances	No. of hours	Lecture 1	Practical/	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases	No. of hours 1 3	Lecture 1 2	Practical/ Museum	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances	No. of hours 1 3	Lecture 1 2 2 2	Practical/ Museum	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology	No. of hours 1 3	Lecture 1 2 2 2	Practical/ Museum	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology:	No. of hours 1 3	Lecture 1 2 2 2 2	Practical/ Museum	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology: 2.1. Cardiovascular diseases 2.2. Respiratory diseases 2.3. Gastrointestinal diseases	No. of hours 1 3 2 2 2 3 3 3	Lecture 1 2 2 2 2 1 2 1 2	Practical/ Museum 1	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology: 2.1. Cardiovascular diseases 2.2. Respiratory diseases 2.3. Gastrointestinal diseases 2.4. Diseases of hepatobiliary system	No. of hours 1 3 2 2 2 3 3 3 3 3	1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Practical/ Museum 1 1 1	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology: 2.1. Cardiovascular diseases 2.2. Respiratory diseases 2.3. Gastrointestinal diseases 2.4. Diseases of hepatobiliary system 2.5. Diseases of exocrine pancreas	No. of hours 1 3 2 2 2 3 3 3	Lecture 1 2 2 2 2 1 2 1 2	Practical/ Museum 1 1 1 1 1 1 1 1	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology: 2.1. Cardiovascular diseases 2.2. Respiratory diseases 2.3. Gastrointestinal diseases 2.4. Diseases of hepatobiliary system 2.5. Diseases of exocrine pancreas and peritoneum	No. of hours 1 3 2 2 2 3 3 3 3 3	1 2 2 2 1 1 2 2 2 2 2 2	Practical/ Museum 1 1 1 1 1 1 1 1 1 1 1	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology: 2.1. Cardiovascular diseases 2.2. Respiratory diseases 2.3. Gastrointestinal diseases 2.4. Diseases of hepatobiliary system 2.5. Diseases of exocrine pancreas and peritoneum 2.6. Diseases of the urinary system	No. of hours 1 3 2 2 2 3 3 3 3 3	1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Practical/ Museum 1 1 1 1 1 1 1 1 1	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology: 2.1. Cardiovascular diseases 2.2. Respiratory diseases 2.3. Gastrointestinal diseases 2.4. Diseases of hepatobiliary system 2.5. Diseases of exocrine pancreas and peritoneum 2.6. Diseases of the urinary system and male and female genital systems	No. of hours	1 2 2 2 1 2 2 2 2 2 2	Practical/ Museum 1 1 1 1 1 1 1 1 1	العامة: على العامة			
d2- work in a team. d3- Use the information technology in se libraries via the internet. Topic 1-General pathology: 1 1. Introduction 1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory disturbances 1.4. Infectious diseases 1.5. Immunopathology 2- Systematic pathology: 2.1. Cardiovascular diseases 2.2. Respiratory diseases 2.3. Gastrointestinal diseases 2.4. Diseases of hepatobiliary system 2.5. Diseases of exocrine pancreas and peritoneum 2.6. Diseases of the urinary system	No. of hours 1 3 2 2 2 3 3 3 3 3	1 2 2 2 1 1 2 2 2 2 2 2	Practical/ Museum 1 1 1 1 1 1 1 1 1 1 1	العامة: على العامة			





2.0 Dlood discosses the lawerh made	1	3	1	
2.8. Blood diseases, the lymph node	4	3	1	
and spleen	2	2	1	
2.9. Immunohistopathology	3	2	1	
2.10. Medical genetics	3	3		
2.11. Specimen preparation and	4		4	
examination	4.5		4	
Total	45	30	15	
Small group discussions: museum specim	nens, Semi	inars, case	study.	٥-أساليب التعليم والتعلم:
Practical classes				٠ـــــــــــــــــــــــــــــــــــــ
لا يوجد	٦-أساليب التعليم والتعلم لذوي القدرات المحدودة:			
				٧-تقويم الطلاب:
- Written exam.				أ-الأساليب
				أ-الأساليب المستخدمة:
- Oral exam.				
- Practical exam.				
Final exam in May or November	ب-التوقيت:			
-Written exam.: 120 marks				ب-التوقيت: ج-توزيع الدرجات:
- Practical exam: 80 marks				الدرجات:
- Oral exam: 50 marks				
			مراجع:	٨-قائمة الكتب والد
- Postgraduate Lecture notes prepared by t department.	he staff me	embers in th	e	أ-مذكرات:
- Department practical & Museum note	es.			
- Robbins and Cotran Review of Patholo Klatt MD and Vinay Kumar MBBS MD		•		ب-كتب ملزمة:
- Color Atlas of Pathology: Pathologic P.				
Sequelae by Ursus-Nikolaus Riede and M				
Pathologic Basis of Disease, Kumar, Cota	, 55 -			
	ج- <u>دىب</u> مقترحة:			
http://www.humpath.com/Websites-Patho	ology			n 1 .
http://peir2.path.uab.edu/reslinks/Patholo	د-دوريات			
html	ojaaoa			علمية أو نشراتالخ
http://library.med.utah.edu/WebPath/web	nath html			سراتانح
س القريب العام عن أبد عبد الأطرف الداش	Y .			1 - 1 11 12 1

أستاذ المادة: : أ.د. سامية يوسف رئيس مجلّس القسم العلمي: : أ.د. عبد اللطيف البلّشي





Course Specifications of Medical Microbiology & Immunology for Master Degree in Medical Parasitology

		١ -بيانات المقرر		
المستوى:	اسم المقرر :	الرمز الكودي:		
ماجستير جزء أول	Medical Microbiology & Immunology	Para 601		
	integral interesting; ex immuniting;			
	عدد الوحدات الدر اسية:	التخصيص:		
	- نظري: ٢	ماجستير الطفيليات الطبية		
	- عملي: ١	الطبية		
1 -	rse the student should be efficiently able to:	٢-أهداف المقرر		
-	nal knowledge of the microorganisms affecting r the world and the relations between them and			
the parasites.	t the world and the relations between them and			
-	ology, clinical symptoms, complications and			
1 -	y tests needed for diagnosis of each disease.			
	nal knowledge about the structure and function			
needed in his/her mai	n so as to perform immunological studies			
needed in mis/ner mai	- 	سو ال سي . سي		
٣-المستهدف من تدريس المقرر:				
By the end of the course, the student should be able to:				
	oorganisms affecting human beings allover the	أ-المعلومات		
world	. 1.	والمفاهيم:		
particularly those rela A2- Describe the met				
A3- Describe the path				
each disease.				
	aboratory tests needed for diagnosis of each			
case. A5- identify some of	the drugs and instructions used for treatment of			
each case.				
	nfection control methods.			
	cture and function of immune system.			
viruses and fungi).	veen the different microorganisms (Bacteria,	ب-المهارات الذهنية:		
U /	veen the different types of bacteria using	الذهنية:		
staining and culturing	• • • • • • • • • • • • • • • • • • • •			
	ween organisms affecting the same body parts.			
•	ganisms on morphological bases.	ج-المهار ات المهنية		
-	ods of staining, culturing and biochemical	ج-المهارات المهنية الخاصة بالمقرر:		
reactions.				
co- perioriii some ser	ological tests used in diagnosis.			





c4- Handle of sam	ples.				
d1- Use the compu	د-المهارات العامة:				
d2- Practice group					
Topic	Lecture	Practical	Course ILO,s	٤ -محتوى المقرر:	
General bacteriology	4	4	a1,a2,b1		
Systemic bacteriology	6	6	a3,a4,a5,b1,b2,b3,c1,c2,c4		
Mycology	3	3	a3,a4,a5,a6, b1,b2,b3, c1,c2,c4		
Virology	6	6	a3,a4,a5,a6, b1,b2,b3		
Nosocomiology	4	4	a3,a4,a5,a6, b1,b2,b3,		
			c1,c2,c4		
Immunology	7	7	A7,c3,c4,d1,d2		
Total	30	30			
Small groSeminarsPractical	, case stu			٥-أساليب التعليم والتعلم:	
11001001	٦-أساليب التعليم والتعلم لذوي				
القدرات المحدودة:					
				٧-تقويم الطلاب:	
- Written exam.	أ-الأساليب المستخدمة:				
- Practical exam.					
- Oral exam.					
Final exam in May or November				ب-التوقيت:	
-Written exam.: 120) marks			ج-توزيع الدرجات:	
- Practical exam: 80	marks				
- Oral exam: 50 mar	:ks				
٨-قائمة الكتب والمراجع: 					
- Postgraduate Lecture notes prepared by the staff members in the department.				أ-مذكرات:	
- Medical Microbiology (Flexibook) by F. H. Kayser, K. A. Bienz, J. Eckert and R. M. Zinkernagel (Oct 20, 2004).			ب-كتب ملزمة:		
- Medical Microbiology: The Big Picture (LANGE The Big Picture) by Neal Chamberlain (Aug 5, 2008)					
- Roitt's Essential Immunology (Essentials) by Peter Delves, Seamus Martin, Dennis Burton and Ivan Roitt (Aug 14, 2006).					





- Problem based Microbiology by Swapan K., 2006.	ج-كتب مقترحة:
http://mic.sgmjournals.org/ http://www.microbes.info/ http://mansvu.mans.edu.eg/moodle/course/category.php?id=64	د-دوريات علمية أو نشراتالخ

رئيس مجلس القسم العلمي:	أستاذ المادة: أ.د.
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Course Specifications of Community Medicine for MSC degree in Medical parasitology

		١ ـبيانات المقرر
المستوى:	اسم المقرر :	الرمز الكودي:
ماجستير جزء أول	Community Medicine	Para 605
	عدد الوحدات الدراسية:	التخصص:
	- نظري: ٢	ماجستير الطفيليات الطبية
	- عملي: ١	الطبية
to:	rse the post graduate students should be able	٢-أهداف المقرر
-	nal knowledge of a community-oriented —skillfully anticipating and responding to eds.	
b- Apply the knowled motivating the comm	dge and skills learned, and to take leadership in unity served as regards the preventive aspects and its relation to Medicine.	
	المقرر:	٣-المستهدف من تدريس
By the end of the cours	e, the student should be able to:	
a.2- Explain the three and environment—af a.3- Describe the dete family, and the comm a.4- Describe the epic human parasitic infectommunity levels. a.5- Define patterns of the levels of preventing a.6- List at least four a.7- Describe the public community setting a.8- Define data source a.9- Define the screen at-risk approach in the a.10- List at least four a.11- Describe the stual a.12- Explain the use sensitivity, specificity	demiology and public health importance of ctions on the individual, the family and of care as preventive and curative, and describe we care. uses for health indicators in Parasitology. lic health surveillance system and its use in the ces for vital statistics. In the ces for vital statistics. In the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the ces for vital statistics in the ces for vital statistics. In the ces for vital statistics in the	أ-المعلومات والمفاهيم:
	ors of health and disease. It health problems in a community, using	ب-المهارات الذهنية:





b.3- Anticipate and participa	te in invest	igation of a	an epidemic/	
outbreak as part of a health to		-6		
b.4- Identify trends in health				
b.5- select appropriate health				
control measures.				
b.6- choose disease prevention				
priority communicable and n				
b.7- select health behavior th				
problems.				
b.8- Identify behavioral and	social varia	bles impac	cting health and	
disease.		1	C	
b.9- design appropriate comr	nunication	strategies	for use with	
clients, the health care team,		· ·		
b.10- Select and use appropri		•	methods and	
materials.				
b.11- Counsel effectively in	the health c	are enviro	nment and	
prevention of parasitic diseas	ses.			
c1- Perform community diag	nosis for h	ealth probl	ems (of parasitic	- الممادات الممندة
origin) in the locality.		•		ج-المهارات المهنية الخاصة بالمقرر:
c.2- Participate in conducting	g public hea	alth surveil	lance.	
c.3- Advocate appropriately				
d1- Communicate well with	his colleagi	ues.		د-المهارات العامة:
d2- Team working for accura	. 3.32, _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
d3- Use standard computer p	rograms ef	fectively (window, office	
programs).				
d4- Utilize computers in con-	ducting res	earch and	to Collect	
scientific data				
Topic	Lectures	Tutorial	Course ILO's	٤-محتوى المقرر:
F.: 1 f 1 4 1	1	1	-1 -2 -2	
-Epidemiology of selected parasitic diseases.	1	1	a1,a2,a3, a4,a5,a6,	
parasitie diseases.			b1,b2,b3,b4,	
-Situations in Egypt and				
globally	2	1	b5,b6,b7,	
- Importance and methods			c1,c2,c3	
of prevention			a1 a2 =2	
-Parasitic infections; Risk factors	5	1	a1,a2,a3, a4,a5,a6,	
NISK TACIOIS		1	b1,b2,b3,b4,	
			b5,b6,b7,	
			c1,c2,c3	
-Parasitic zoonotic and	2	1	a1,a2,a3,	
occupational diseases.			a4,a5,a6,	





				b1,b2,b3,b4,	
				b5,b6,b7,	
A (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				c1,c2,c3	
-Arthropod born parasitic	2	1		a1,a2,a3,	
diseases	2	1		a4,a5,a6,	
				b1,b2,b3,b4,	
				b5,b6,b7,	
				c1,c2,c3	
-Emerging and remerging	1	1		a4,a5,a6, b2, c2	
parasites					
-Investigations of a				a4,a5,a6, a7,	
parasitic epidemic, the				b8,b9,	
attack rates	1	1		d1,d2,d3, d4,	
-Methodology	3	2		a10,a11, a12,	
		_		b10,d2,d3, d4	
-Statistics				a8, a9, a9	
Terminology and rationale				αο, αν, αν	
Data collection	5	2		a7,a8,a9, b3,	
	3	2		b9, b10, b11,	
Types of data				, , , , , ,	
Tabulation of data				c1, c2, d1,	
Graphical presentation of				d2,d3, d4	
data					
Measures of dispersion					
Normal distribution					
curves					
-International	2		1	a3,a4,b1	
classification of diseases.					
-International death	1		1	a3,a4,b1	
certificate.					
-Study design				a10,a11, a12,	
Cross sectional study and				b9, c1,	
the prevalence rate cohort	2		1	d1,d2, d3, d4	
study,					
Incidence rate, Odd ratio.					
Sampling	3	1		a7, b9,c2	
 Small group discu 	ssions				٥-أساليب التعليم
• Seminars, case stu	ıdv				والتعلم:
Selfinars, ease sea					, -
	لا يوجد				٦-أساليب التعليم
					والتعلم لذوي القدرات
					المحدودة:
					٧-تقويم الطلاب:
- Written exam.					أ-الأساليب
- Oral exam.					المستخدمة:





Final exam in May or November	ب-التوقيت:
-Written exam.: 200 marks	ج-توزيع الدرجات:
- Oral exam: 50 marks	
:	٨-قائمة الكتب والمراجع
- Postgraduate Lecture notes prepared by the staff members in the department.	أ-مذكرات:
1-Maxy-Rosenau Public health and preventive medicine, Prentice – Hall International Inc.	ب-كتب ملزمة:
1- Dimensions of Community Health, Boston Burr Ridge	ج-كتب مقترحة:
Dubuque.	
2- Short Textbook of preventive and social Medicine.	
Prentice-Hall International Inc.	
3- Epidemiology in medical practice, 5th edition.	
Churchill Livingstone. New York, London and Tokyo.	
4- Textbook of Community Medicine (Preventive &	
Social Medicine) by Sunderlal (Jan 1, 2007)	
1-American Journal of Epidemiology.	د-دور بات علمية أو
2-British Journal of Epidemiology and Community	د-دوريات علمية أو نشراتالخ
Health.	

أستاذ المادة: أ.د. محمود فوزي رئيس مجلس القسم العلمي: أ.د. عبد المنعم ضوه







Course Specifications of Hepatology& Gastroentrology for Master Degree of Parasitology

		١ -بيانات المقرر		
المستوى:	اسم المقرر:	الرمز الكودي:		
ماجستير جزء أول	Hepatology& Gastroenterology	Para 606		
	عدد الوحدات الدر اسية:	التخصص:		
	- نظر <i>ي:</i> ٢	التخصص: ماجستير الطفيليات الطبية		
	- عملي: ١	الطبية		
1. To have basic knowledge about fevers and its common causes. 2. To have basic knowledge about etiology, pathogenesis, clinical picture, complications and management of the most common infectious diseases. 3. To understand the most common gastrointestinal and hepatic diseases especially those prevalent in our country and be able to diagnose and manage them. 4. To be able to take a complete medical history from patients 5. To know the symptomatology of gastrointestinal system and how to analyze them to reach a provisional diagnosis 6. To have a basic knowledge about different methods of clinical examinations of patients and details of abdominal examination 7. To be able to link clinical to laboratory data				
By the end of the cour	ى المقرر : se, the student should be able to:	٣-المستهدف من تدريس		
a1- discuss the condiseases Worldwide health problems in o a2- explain the caupathogenesis. a3- describe the condiagnosis of common	mmon infectious, hepatic and gastrointestinal e and the most common diseases and public ur country. Issation of diseases and new concepts in their linical picture, complications and differential in infections. Ortance of good history taking as a first step to	أ-المعلومات والمفاهيم:		
solve a medical prob A5- identify the co other techniques a8- describe the vari- common diseases (s surgical treatment).	ous therapeutic methods/ alternatives used for supportive therapy, nutrition, pharmacotherapy, l methods for health promotion and disease			





symptoms.	nd correlate them with nationt's			
	b2- Interpret physical findings and correlate them with patient's			
B3- analyze problems and find sol				
B4- Select from different diagnost				
reach a final diagnosis.				
B5- Select the most helpful labor	atory investigation to confirm the			
diagnosis.	atory investigation to commit the			
B6- innovate nontraditional solution	ons to problems.			
c1- Perform general and abdomina	-	e train tr		
c2- Interpret, conclude and discus	*	ج-المهارات المهنية الخاصة بالمقرر:		
examination	20 2000 2011 2012 110111 112001	الحاصلة بالمقرر :		
	diseases(parasitic, bacterial and			
viral) and be able to differentiate the	<u>*</u>			
c4- Perform basic diagnostic	•			
measures (pulse, temperature, g	1 1			
fluids, taking aspirations from path	<u> </u>			
c5- identify patients with life thre	<u> </u>			
proper management and change it	•			
c6-learn how to look for physical s	C 1			
C7 Take a thorough medical histor				
d1- Work in a team	•	د-المهارات العامة:		
d2-Communicate well with his	colleagues, top managers and	د-انمهارات انتفاقه-		
subordinates.				
d3- Establish a good patient-physic	cian relationship.			
d4- Use computers in conducting r				
		٤-محتوى المقرر:		
Diagnosis of a case of fever	Pyrevia of unknown origin	٤-محتوى المقرر:		
Diagnosis of a case of fever	Pyrexia of unknown origin	٤-محتوى المقرر:		
Ascariasis	, o	٤-محتوى المقرر:		
Ascariasis Nosocomial infections	Helminthic Diseases	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis	Helminthic Diseases Tissue larva migrans	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis	Helminthic Diseases Tissue larva migrans Paragonimus westermani	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta Hydatid disease	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum Enterobiasis, Ancylostomiasis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta Hydatid disease Protozoal Diseases	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum Enterobiasis, Ancylostomiasis Malaria	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta Hydatid disease Protozoal Diseases Babesiosis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum Enterobiasis, Ancylostomiasis Malaria African Tripanosomiasis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta Hydatid disease Protozoal Diseases	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum Enterobiasis, Ancylostomiasis Malaria	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta Hydatid disease Protozoal Diseases Babesiosis Balantidiasis Giardiasis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum Enterobiasis, Ancylostomiasis Malaria African Tripanosomiasis Toxoplasmosis American Leshmaniasis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta Hydatid disease Protozoal Diseases Babesiosis Balantidiasis Giardiasis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum Enterobiasis, Ancylostomiasis Malaria African Tripanosomiasis Toxoplasmosis American Leshmaniasis Trypanosomiasis	٤-محتوى المقرر:		
Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Cappilariasis Trichinosis Fascioliasis Loaisis Heterophyes heterophyes Dracanculus medinensis Hymenolepis nana, diminuta Hydatid disease Protozoal Diseases Babesiosis Balantidiasis Giardiasis Amaebiasis	Helminthic Diseases Tissue larva migrans Paragonimus westermani Filariasis Clonorchis sinensis Onchocerciasis Taeniasis Treatment of helminthic infections Diphylobothrium latum Enterobiasis, Ancylostomiasis Malaria African Tripanosomiasis Toxoplasmosis American Leshmaniasis	٤-محتوى المقرر:		





Haematological Disorders in the Emergencies in Fevers		
Tropics		
Infections in	Infection and immunity	
immunocompromized host	interaction	
Malnutrition and infection inter-	Arthropod borne infections	
relations	Infectious and non-infectious	
	diarrhea	
Salmonella infections	Brucellosis	
Immunizations	Precautions taken by travelers	
	to tropical areas	
Shigellosis	Tuberculosis of the GIT	
Cholera	Cholestasis	
 Small group discussions 		٥-أساليب التعليم
 Seminars, case study. 		٥-أساليب التعليم والتعلم:
 Practical classes 		, ,
يو جد	Ä	٦-أساليب التعليموالتعلم لذوي القدراتالمحدودة:
		3
		٧-تقويم الطلاب:
- Written exam.		أ-الأساليب
- Clinical exam.	المستخدّمة:	
- Oral exam.		
Final exam in May or November		ب-التوقيت:
-Written exam.: 120 marks		ج-توزيع الدرجات:
- Practical/clinical exam: 80 marks		
- Oral exam: 50 marks		
	:	٨-قائمة الكتب والمراجع
-Davidson text Book of Medicine.		أ-كتب ملزمة
-Hutchison Book for case taking.	۱-خنب منرمه	
Hunter's Tropical MedicineCURRENT Diagnosis & Treatn	ب-كتب مقترحة:	
Hepatology, & Endoscopy (LA)	23 ,	
Norton Greenberger, Richard B		
(Apr 23, 2009)	organical resource Bulunoii	
- Sheilla Sherlock (Text Book) of		
http://www.ncbi.nlm.gov	17.1 -1	
http://www.google.com.	د-دوريات علمية أو نشراتالخ	
http://Freemedicaljournals.com	سراتانح	
1 J	مالاق برئيس محاس القسم الحامين	

أستاذ المادة: أ.د. يحي صادق رئيس مجلس القسم العلمي:





Course Specifications of Medical Parasitology for MSc. Medical Parasitology Degree (second part)

		١ -بيانات المقرر
المستوى:	اسم المقرر:	الرمز الكودي:
ماجستير جزء ڻاني	Medical Parasitology (second part)	Para 607-610
	عدد الوحدات الدر اسية:	التخصص:
	- نظ <i>ري:</i> ۱۰	ماجستير الطفيليات الطبية
	الطبية	
By the end of the cou & understanding of t world and particularl and teach medical Pa	٢-أهداف المقرر	
	، المقرر:	٣-المستهدف من تدريس
By the end of the cours	se, the student should be able to:	
beings allover the wo	geographical distribution and life cycle of	أ-المعلومات و المفاهيم:
of each parasite.	athology, clinical symptoms and complications	
2.a.64. identify the ki used for treating each 2.a.7. discuss the kr		
parasites and vectors. 2.a.8. identify sufficient importance, especiall	ient knowledge about snails and their medical	
	owledge of parasitic immunity basis.	
2.b.2. Differentiate be 2.b.3. Differentiate geographical location	etween parasites affecting the same organ. etween parasites present in the same sample. between parasites inhabiting the same n. between parasites or vectors on morphological	ب-المهارات الذهنية:
bases.	between parasites of vectors on morphological	
2.c.2. Identify some s 2.c.3. Identify some	ective and the diagnostic stages of the parasites stages of the parasites. of the medically important intermediate host y those present in Egypt.	ج-المهارات المهنية الخاصة بالمقرر:
2.c.4. Perform some 2.c.5. Perform availal 2.c.6. Deal with lab	laboratory tests available in the department lab. ble immunological tests. o animals: infecting, sacrifice, dissecting and	
examining.		





2.c.7. Collecting and rearing of arthropods.2. c.58. Recommend laboratory case.			
2.d.1. Use the computer to enter p	د-المهارات العامة:		
2.d.2. communicate with others.	11		
2.d.3. work in groups, as a leader 2.d.4. collect data from medical co	_	nto	
2.d.5. compile a review article abo			
Contents of Medical Parasi	٤-محتوى المقرر:		
PARA612 units	Credits/unit	Total teaching hours/30 weeks	
1-Advanced Helminthology	2	150	
2- Advanced Protozoology	2	150	
3- Advanced Entomology	1.5	105	
4- Advanced Immunology and Molecular Biology of Parasitic infections.	1	60	
5- Advanced Diagnostic techniques for parasitic infections& prevention methods	1.5	105	
Total	8	525	
Small group discussions			٥-أساليب التعليم ه التعلم:
 Seminars, case study. 	والتعلم:		
Practical classes			
جد	٦-أساليب التعليم والتعلم لذوي القدرات المحدودة:		
	٧-تقويم الطلاب:		
- Written exam.			أ-الأساليب
- Practical	المستخدمة:		
- Oral exam.			
Final exam in May or November	ب-التوقيت:		
-Written exam.: 300 marks	ب-التوقيت: ج-توزيع الدرجات:		





- Practical exam: 150 marks	
- Oral exam: 150 marks	
:	٨-قائمة الكتب والمراجع
- Lecture notes prepared by the staff members in the department.	أ-مذكرات: ب-كتب ملزمة:
- Foundations of Parasitology by Larry Roberts and John Janovy Jr. (Oct 13, 2008)	ب-كتب ملزمة:
- Medical Parasitology: A Self-Instructional Text by Ruth Leventhal and Russell F. Cheadle (Jan 15, 2002	
- A Color Atlas of Parasitology by John T. Sullivan (2009) Introduction to Infectious and Parasitic Diseases, Including Their Cause and Manner of Transmission by Millard Langfeld(2010)	ج-كتب مقترحة:
www.dpd.cdc.gov/dpdx/html/Frames/OtherDocs/body -www.hon.ch/HONselect/Selection/C03www.mic.stacken.kth.se/Diseases/C03www.wellsphere.com/	د-دوريات علمية أو نشراتالخ
-www.cdc.gov/ -www.intute.ac.uk/cgi-bin/fullrecord.pl?handle=4032600 -www.intute.ac.uk/cgi-bin/	
-www.ellisonfoundation.org/ -www.npr.org/templates/story -Infectious Diseases	
-International Laboratory Network Watches for Disease Outbreaks -www.america.gov/surveillance.html	

 ، العام ·	، القسد	محلس	ر ئىس	حسن	محمد	أد	المادة.	أستاذ
 م الحلمي.	ر بعسد	مجسر	رىيس	حسين	سحس	'	العادة	ست