



Besha University
Faculty of Medicine
Parasitology Department



Program Specification
MD Medical Parasitology

(2024 -2025)

A) Basic information

(أ) معلومات أساسية

1- Program title: M.D. in Medical Parasitology.

2- Nature of the program: single

3- Departments:

- **Responsible Department:** Parasitology Department.
- **Participating Departments:** Microbiology & immunology department, Community Environmental & Occupational medicine department

4- **Program coordinator:** Prof. Dr. Amany Farouk El Fakahany. (Professor of Parasitology, Beshu University)

5- **Internal evaluation of the program:** Prof. Dr. Maysa Ahmed Eragy (Professor of Parasitology, Beshu University)

6- **External evaluation of the program:** Prof. Rada Lamiy El Gamal (Professor of Parasitology, Zagazig University)

7- **Date of approval by Parasitology Department council:** 29/2020.

8- **Date of approval by Faculty council:** 15/9/2020 number 445

B) Professional information

(ب) معلومات مهنية

1-Overall aims of the program:

1-الأهداف العامة للبرنامج

The overall goals of the program are as:



- 1.1 Provide the postgraduate with the detailed and advanced knowledge and skills of medical parasitology and research methodologies in the field of parasitology.
- 1.2 Enable the postgraduate graduate to apply the analytical methods and critic the knowledge in the field of medical parasitology and related fields.
- 1.3 Integrate specialized knowledge with relevant knowledge and develop bilateral relations.
- 1.4 Show deep awareness of current problems and theories in the marginal area of medical parasitology
- 1.5 Identify problems professionally and find innovative solutions to solve them.
- 1.6 Be oriented towards the development of methods and new tools and techniques for professional practice.
- 1.7 Use of appropriate technological means to serve the professional practices.
- 1.8 Communicate effectively and lead the team in various professional contents.
- 1.9 Employ available resources efficiently, develop and work to find new resources.
- 1.10 Have ongoing commitment to self-development and the transfer of knowledge and experience to others.

2. Intended Learning Outcomes (ILOs)

2. المخرجات التعليمية المستهدفة

2.a. Knowledge and Understanding:

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

- 2.a.1. Discuss emerging concepts of parasitic terminology, geographical distribution, morphology, life cycles, transmission, pathology, pathogenesis, clinical picture, host parasite relationship, treatment, prevention and control of parasitic diseases.
- 2.a.2. Recognize advanced medically important vectors and snails and how to examine for parasites using recent techniques.
- 2.a.3. Understand how to collect parasitological specimens accurately and how to prepare permanent preparations.
- 2.a.4. Describe principles of direct methods of diagnosis as well as immunological methods of diagnosis and carry out them.
- 2.a.5. Explain the basis of advanced environmental parasitology.
- 2.a.6. Discuss 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.a.7. Illustrate hospital acquired parasitic infections, types, causative organisms, prevention and control.



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- 2.a.8. Point out the details of recent anti-parasitic chemotherapy, side effects, chemoprophylaxis and resistance.
- 2.a.9. Know anti-parasitic vaccines.
- 2.a.10. Describe impact of molecular technology in Parasitology and immunology.
- 2.a.11. Explain details of proper ethical & legal practice.
- 2.a.12. Recognize basics and essentials of medical quality control.
- 2.a.13. Illustrate proper design, conduction & publishing of scientific research.
- 2.a.14. Demonstrate basis of scientific knowledge essential for following the rules of medical research ethics.

2.b. Intellectual skills:

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

- 2.b.1. Analyse, deduce, extrapolate & evaluate given parasitological problems.
- 2.b.2. Interpret parasitological, immunological and molecular reports.
- 2.b.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.
- 2.b.4. Evaluate according to evidence, the causal relationship of parasites and diseases.
- 2.b.5. Solve different parasitological problems (identification, diagnosis, treatment) in absence of adequate data.
- 2.b.6. Join different knowledge to help in solving difficult problems.
- 2.b.7. Design a research study that add to the existing specialty knowledge
- 2.b.9. Plan for development in the performance in diagnosis of parasitic disease and its application for community development.
- 2.b.8. Plan courses to improve practice and enhance performance of juniors.
- 2.b.10. Appreciate the danger of handling and use of infectious agents on community and environment as a part of their ethical heritage.
- 2.b.11. Add to the specialty field through creativity & innovation.
- 2.b.12. Make appropriate decisions in different situations.

2.c. Professional & Practical skills

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



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- 2.c.1. Perform 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. Identify different diagnostic tests commonly used for parasitic infections.
- 2.c.4. Judge results of parasitological, serological and molecular tests and apply it.
- 2.c.5. Evaluate and improve methods and tools used in specialty.
- 2.c.6. Use molecular technology to advance practice.
- 2.c.7 Publish scientific articles/ papers (in indexed journals).

2.d. General & transferable skills

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

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

3. Academic Standards

3- المعايير الأكاديمية

Academic Reference standards for MD parasitology program in Benha Faculty of Medicine, approved by department council, June 2013 and in faculty council September 2013. 4 ملحق

المعايير الأكاديمية لبرنامج الدكتوراه في الطفيليات الطبية بكلية طب بنها (ملحق 1)
(أخذت من مجلس قسم الطفيليات بتاريخ 2013/6/4 اعتماد مجلس الكلية 354 بتاريخ 2013/9/16)

- المعايير القياسية العامة لبرنامج الدكتوراه الصادرة عن الهيئة القومية لضمان الجودة والاعتماد (إمآرس) (ملحق 2).
- مصفوفة مقارنة المعايير القياسية لأربع الدراسات العليا (درجة الدكتوراه) الصادرة عن الهيئة القومية لجودة التعليم والاعتماد مع الـ ARS. (ملحق 3)
- مصفوفة المقابلة بين المعايير المحلية لبرنامج الدكتوراه الطفيليات الطبية مع أهداف ونواتج تعلم البرنامج (ملحق 4)



4. Program structure and contents:

5. هيكل ومكونات البرنامج:

البرنامج			
المواد المعمدة	الكود	المقررات الدراسية	
=	PARA 701	ميكروبيولوجيا	الجزء الأول (يفضل الطالب مقررات ٢ فصل)
+	PARA 701	علم الباثولوجيا	
+	PARA 702	علم الباثولوجيا الإكلينيكية	
=	PARA 703	الكيمياء الحيوية	
+	PARA 704	وراثة	
=	PARA 705	طب مجتمعي	
+	PARA 706	طب المناطق الحارة	
=	PARA 707	علم الأنسجة	
1+	PARA 708	علم الطفيليات الطبية	الجزء الثاني
15			إرسالة
16			المجموع



a. Program duration: 6 semesters.

⬆ **1st part:** - One Semester (6 months).

⬆ **2nd part:** - Four Semesters (2 years).

⬆ **Thesis:**

لنسجل بعد اجتياز الجزء الأول ابتداء من الفصل الدراسي الثاني ولمدة لا تقل عن عامين (أربعة فصول دراسية) ويتم مناقشة الرسالة بعد ستة أشهر من الترخيص دور امتحان الجزء الثاني الذي اجتازه الطالب بنجاح.

b. Program structure:

- Total hours of the program: 65 credit hours

- Theoretical: 37 credit hours.

- Practical: 13 credit hours.

- Thesis: 15 credits hour

c. Program levels and courses:

ج. مستويات ومقررات البرنامج

Parasitology



First part (two semesters):

a- Elective courses: (choose 2 courses)

Course Title	Course Code	No. of Teaching hours per week			Total teaching hours semesters
		Theoretical	Practical	Total Week	
1-Microbiology	PARA 701	1.5	1	6.5	67.5
2- Pathology	PARA 702	1.5	1	6.5	67.5
3- Clinical pathology	PARA 703	1.5	1	6.5	67.5
4-Biochemistry	PARA 704	1.5	1	6.5	67.5
5-Cytetics	PARA 705	1.5	1	6.5	67.5
6-Community medicine	PARA 706	1.5	1	6.5	67.5
7- Tropical medicine	PARA 707	1.5	1	6.5	67.5
8-Immunology	PARA 708	1.5	1	6.5	67.5

b- Compulsory courses: none

c- Selective courses: none

Second part (4 semesters):

Second part:

a- Compulsory courses:

	Teaching of hours per week			Total teaching hours-semester
	Theoretical	Laboratory practical	Total	
Parasitology PARA 709	30	20	50	3000

b- Elective courses:

c- Selective courses:none



8. Courses contents:

محتويات المقررات (راجع توصيف المقررات ملحق 6)

- كون أو رقم المقرر :
- اسم المقرر :
- المستويات : (طبقاً لما هو مذكور في اللائحة)

جد محتويات الاختصاص بالبرنامج

4 - مادة (18) : يشترط في قيد انتخاب درجة المقررات

- أ - أن يكون حاصلها على درجة المفاضلة في مادة التخصص أو إحدى المواد الأساسية المتعلقة بها بأكبر جزء حتى الأقل من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة لها من معهد علمي آخر معترف به وبمعدلات من المجلس الأعلى للجامعات.
- ب - موافقة جهة العمل.
- ج - أن يتخرج كترابية لمدة سنة حتى الأقل في الجزء الثاني (فصيلتين دراسيتين) وحسب متطلبات التدريب التي يقرها القسم المختص وموافقة مجلس الكلية.
- د - تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة

4 - مادة (19) : مواضع القبول بعد الترشيد

يكون القبول بعد درجة المقررات المراد في السنة خلال شهرين من تاريخه والقبول من كل عام

5 - القواعد المتعلقة باستكمال البرنامج :

مادة (26)

- يشترط في القبول قبل درجة الترشيد في الطب أو الجراحة أو العلوم الطبية الأساسية ما يلي :
- 1- حضور المقررات الدراسية والتدريب والتجريبية والصحية والمهنية بمسلة مرضية طبقاً لعدد الساعات المحددة على الأقل عن 75%.
 - 2- أن يكون بحث في موضوع نقره الجامعة بعد موافقة مجلس الكلية والقسم لمدة ستان على الأقل.
 - 3- أن يقدم بنتاج البحث في رسالة تعيها لجنة الحكم بعد مناقشة علمية للرسالة بعد نشر بحث مثالي من الرسالة في مجلة علمية معترف بها وأنها مواقع إلكترونية ومطبوعة بالعلماء.
- لإعطاء الطلاب التفرقة اللازمة من داخل جامعة بأنها وذلك قبل مناقشة الرسالة
- والصيد و التقني و (اللاإكلية) ممارسة المهنة - النشر الدولي لبحث العلمي - تمويل البحث العلمي



١٠. اعتماد اعتماد التقييم يستلزم لا يقل عن 500 وحدة وذلك قبل مناقشة الرسالة من اعد الجهات المعتمدة طبقا لمتطلبات الجامعة (يستثنى من ذلك الطالب المعامل على شهادة توكيل سابقة بمجموع 500 وحدة وصلاحتها مازالت سارية).

١١. ان يحصل برنامج الكليات الثغورية والالتحاقية والشعبية المعقولة وفقا لما هو مبين باللاحق.

8. graduate assessment methods

طرق وقواعد تقييم المتقدمين بالبرنامج

First part

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

First part

الدرجة	الدرجة			البرنامج	المقرر
	مجموع	المفاهيم	المهارات		
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي وعملي	مقرر عام ١
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي وعملي	الرياضيات
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي	الكيمياء العامة
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي	كيمياء حيوية
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي	بيولوجيا
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي	طب مختبري
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي وعملي	طب المساقط العامة
250	75	50	125	اعتماد تعريفي عنه ثلاث ساعات ١٠ اعتماد تطبيقي وعملي	علم الأحياء



Second part

الاسم	الدرجة			المجال	المقرر
	علمي	شعبي	مختلج		
2006	500	500	500+500	العلوم الطبيعية والعلوم الإنسانية	العلوم الطبيعية والعلوم الإنسانية

Thesis: Pass or fail according to the committee decision and approved by department council, Faculty council and University council.

الملاحظة: يشترط أن يتوافق أغلب الشروط والأحكام المتعلقة والمعتمدة والمعلقة من مجلس قسم التعليمات.

استراتيجية التعليم والتعلم على مستوى البرنامج

9- طرق تقييم البرنامج:

9- Evaluation of Program:

Evaluator	Tools	sample
Internal evaluator (s) معلم داخلي	Report	1-2 Report
External Evaluator (s) معلم خارجي	Report	1-2 Report
Senior student (s) طلاب السنة النهائية	Interview, questionnaires	all
Alumni الخريجون	Interview, questionnaires	Not less than 50% from the last 5 years
Stakeholder (s) أصحاب العمل	Interview, questionnaires	Representative samples from all sectors

10- استراتيجيات التعليم والتعلم على مستوى البرنامج:

1. استراتيجية التعلم التفاعلي Interactive learning
2. استراتيجية التعليم الذاتي على المخرجات Outcome based learning
3. استراتيجية التعلم عن طريق دراسة الحالة Case based learning
4. التعلم باستخدام التكنولوجيا المعلومات E-learning



We certify that all information required to deliver this program is contained in the above specification and will be implemented. All course specification for this program are in place.

Program Coordinator:
Prof. Dr. Amrany El-Fakharany

Signature & date:
September 2020





الملحقات

ملحق 1

Academic Reference standards for MD parasitology program in Berha Faculty of Medicine, approved by department council, June 2013 and in faculty council September 2013.

رئيس مجلس القسم : د. محمد عبد العزيز

ملحق 2

المعايير القياسية العامة لبرنامج الدراسات العليا (درجة الدكتوراه) الصادر عن اللجنة القومية لضمان الجودة والاعتماد (عزاس 2009)

ملحق 3

مصفوفة مقارنة المعايير القياسية لبرنامج الدراسات العليا (درجة الدكتوراه) الصادر عن اللجنة القومية لضمان الجودة والاعتماد مع الـ ARS

ملحق 4

مصفوفة مساهمة المعايير الأكاديمية لشكواء الطفرات لكافة طبها مع أهداف ونتائج تعلم البرنامج

ملحق 5

Program-Courses ILOs Matrix مع أهداف ونتائج تعلم البرنامج

ملحق 6

توصيف المقرر

Parasitology



ملحق 1

Academic Reference standards for MD parasitology program in Beni Ha Faculty of Medicine, approved by department council, june 2013 and in faculty council September 2013.

المعايير الأكاديمية لبرنامج الدكتوراه في الطفيليات بكلية طب بنها

1. Graduate specification:

- 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. Continuously working on addition to the current knowledge in the field of parasitology.
- 1.4. Competent to apply the analytical methods and critic the knowledge in the field of medical parasitology and related fields.
- 1.5. Proficiently integrate specialized parasitology knowledge with relevant knowledge and develop bilateral relations.
- 1.6. Show deep awareness of current problems and theories in the marginal area of medical parasitology.
- 1.7. Identify problems professionally and find innovative solutions to solve them.
- 1.8. Able to make decision according to the available information.
- 1.9. Oriented towards the development of methods and new tools and techniques for professional practice.
- 1.10. Use appropriate technological techniques to serve the professional practice in the field of clinical parasitology.
- 1.11. Communicate effectively and able to lead teamwork in various professional contexts.
- 1.12. Manage the available resources efficiently, develop and work to sustain the available and find new resources.
- 1.13. Have ongoing commitment to self-development and the transfer of knowledge and experience to others.
- 1.14. Aware of his role in community serving and preservation of the environment.
- 1.15. Behave with commitment, credibility, integrity and following the professional and ethical skills.

2. Academic Standards:

2.1. **Knowledge and understanding:** By the end of the program, the candidate should be able to

- 2.1.1. 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.
- 2.1.2. Describe medically important vectors and snails and how to examine for parasites.
- 2.1.3. Recognize parasitological specimens and how to prepare permanent preparations.
- 2.1.4. Define principles of direct methods of diagnosis as well as immunological methods of diagnosis and carry out them.
- 2.1.5. Outline basics of environmental parasitology.
- 2.1.6. Recognize 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.



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- 2.1.7. Recognize hospital acquired parasitic infections, types, causative organisms, prevention and control.
- 2.1.8. Study details of recent antiparasitic chemotherapy, side effects, chemoprophylaxis and resistance.
- 2.1.9. Define antiparasitic vaccines.
- 2.1.10. Disease impact of molecular technology in Parasitology and immunology.
- 2.1.11. Define details of right ethical & legal practice.
- 2.1.12. Recognize basics and essentials of medical quality control.
- 2.1.15. Explain proper design, construction & publishing of scientific research in parasitology.
- 2.1.14. Outline basis of scientific knowledge essential for following the rules of medical research ethics.

2.2. Intellectual skills: By the end of the program the candidate should be able to:

- 2.2.1. Analyse, deduce, extrapolate & evaluate given parasitological problems.
- 2.2.2. Interpret parasitological, immunological and molecular reports.
- 2.2.3. 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.
- 2.2.4. Evaluate different situations according to evidence, the causal relationship of parasites and diseases.
- 2.2.5. Solve different parasitological problems (identification, diagnosis, treatment) in absence of adequate data.
- 2.2.6. Join different knowledge to help in solving difficult problems.
- 2.2.7. Design a research study that add to the existing specialty knowledge
- 2.2.8. Plan for development in the performance in diagnosis of parasitic disease and its application for community development.
- 2.2.9. Plan courses to improve practice and enhance performance of juniors.
- 2.2.10. Appreciate the danger of handling and use of infectious agents on community and environment as a part of their ethical heritage.
- 2.2.11. Add to the specialty field through creativity & innovation.
- 2.2.12. Make appropriate decisions, in different situations.
- 2.2.13. Publish scientific articles/ papers (in indexed journals).

2.3. Professional & Practical skills: By the end of the program the candidate should be able to:

- 2.3.1. Perform direct diagnostic examination of specimens and carry out different staining methods.
- 2.3.2. Identify medically important parasites based on microscopic examination of stained preparations.
- 2.3.3. Identify different diagnostic tests commonly used for parasitic infections.
- 2.3.4. Judge results of parasitological, serological and molecular tests and apply it.
- 2.3.5. Assess and improve methods and tools used in specialty.
- 2.3.6. Recommend up to date technology to advance practice in the field of parasitology.
- 2.3.7. Recommend plan for development of professional skills and enhance juniors' skills.
- 2.3.8. Prepare professional assessment reports.



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- 2.4. General & transferable skills: By the end of the program the candidate should be able to:
- 2.4.1. Communicate effectively using all recent methods
 - 2.4.2. Use advanced information technology to improve his/her professional practice
 - 2.4.3. Educate and evaluate others
 - 2.4.4. Perform self-appraisal & seek continuous learning
 - 2.4.5. Use new sources of information to obtain data
 - 2.4.6. Work as team leader as well as a member in larger teams
 - 2.4.7. Manage different scientific meetings and appropriately utilize time

اعتماد مجلس الكلية بتاريخ 9- 2013

اعتماد مجلس القسم بتاريخ 6- 2013

رئيس مجلس القسم

الاستاذ المساعد الدكتور

Parasitology



ملحق 2

Academic standards for MD program issued by the National Authority for Quality Assurance & Accreditation of Education (March 2009)

المعايير الأكاديمية العامة لبرامج الدكتوراه الصادرة عن الهيئة العامة لضمان الجودة والاعتماد (مارس 2009)

1- مبادئ التخرج

خرج برامج الدكتوراه في أي تخصص يجب أن يكون قادراً على

- 1-1 اتقان أساليب ومنهجيات البحث العلمي
- 2-1 العمل المستمر على الأبحاث المتعارف في مجال التخصص
- 3-1 تطبيق المنهج العلمي والأكاديمي في مجال التخصص والمجالات ذات العلاقة
- 4-1 دمج المعارف المتخصصة مع المعارف ذات العلاقة مستخدمة ومطورة لتطبيقات البنية معاً
- 5-1 اختيار وتطبيق عميقاً للمصادر الجارية والتطبيقات الحديثة في مجال التخصص
- 6-1 تصميم للمشكلات المهمة وإيجاد حلولاً مبتكرة لها
- 7-1 اتقان نطاقاً واسعاً من المهارات الفنية في مجال التخصص
- 8-1 التوجه نحو تطوير طرق وأدوات وأساليب جديدة لمعالجة المسئلة
- 9-1 استخدام الوسائل التكنولوجية الحديثة بما يقدم مساهمة للبيئة
- 10-1 التواصل بفاعلية وإقامة طرق عمل في مجالات مهنية مختلفة
- 11-1 اتخاذ القرار في ظل الظروف المتغيرة
- 12-1 توظيف المبادئ الخاصة بكفاءة وتنسيقاً والعمل على إيجاد موارد جديدة
- 13-1 أن يكون قادراً على تنمية المجتمع والعلاقات مع البيئة
- 14-1 التصرف بما يحسن الالتزام بالواجب والمسئولية وقواعد البيئة
- 15-1 الالتزام بتنمية الثقافة المستمرة وفن طاعة وعمرارة للعلمين

2- معايير القياسية

1-2 المعرفة والتدريس

بناءً دراسة برنامج الدكتوراه يجب أن يكون الخريج قادراً على القيم والمعرفة بكل من

- 1-1-1 التميز والامتياز والاحكام من المعارف في مجال التخصص والمجالات ذات العلاقة
- 2-1-2 أساليب ومنهجيات وأخلاقيات البحث العلمي وثقافته المختلفة
- 3-1-2 للممارسات التطبيقية والمهنية للممارسة المهنية في مجال التخصص
- 4-1-2 مبادئ وأسسيات الجودة في الممارسة في مجال التخصص
- 5-1-2 لمعارف المتخصصة بآثار مساهمة المهنية على البيئة وطرق تنمية البيئة وصيانتها



2-2 المهارات الذهنية

- 1-2-1 بناءاً دراسة برنامج المنهجية المكونة من ان يكون البرنامج قادراً على
- 2-2-1 تحليل وتقييم المعلومات في مجال التخصص والقيام عليها والاستفادة منها
- 2-2-2 عمل للمشاكل التخصصية استناداً على المعلومات المتاحة.
- 3-2-2 اجراء دراسات بحثية تطبيقية في المعارف.
- 4-2-2 صناعة اوراق علمية.
- 5-2-2 تعليم الطالب في المهارات الحديثة.
- 6-2-2 التخطيط لتطوير الذات في مجال التخصص.
- 7-2-2 اتخاذ القرارات الحكيمة في مواقف مهنية مختلفة.
- 8-2-2 الابتكار والابداع.
- 9-2-2 الحوار والمناقشة العلمي على ازمته.

3-2 المهارات الفنية

- بناءاً دراسة برنامج المنهجية المكونة من ان يكون البرنامج قادراً على
- 1-3-2 اذات المهارات الأساسية والفنية في مجال التخصص.
- 2-3-2 كفاية وتقييم المهارات الفنية.
- 3-3-2 تعليم وتطوير الطرق والأدوات المستخدمة في مجال التخصص.
- 4-3-2 استخدام الوسائل التكنولوجية بما يقدمه لتأدية المهام.
- 5-3-2 التخطيط لتطوير الدراسة الفنية وتنمية أداء الآخرين.

4-2 المهارات العامة والمشتقة

- 1-4-2 التواصل الفعال بلوائمه المكتشفة.
- 2-4-2 استخدام تكنولوجيا المعلومات بما يقدمه تطوير كفاءات المهنية.
- 3-4-2 تعليم الآخرين وتقييم أدائهم.
- 4-4-2 التعليم الذاتي والتعليم المستمر.
- 5-4-2 استخدام المصادر المختلفة للحصول على المعلومات والمعارف.
- 6-4-2 العمل في فريق وقيادة فريق العمل.
- 7-4-2 إدارة العلاقات العامة والحدرة على إدارة الوقت.



ملحق رقم 3

مصفوفة مضادة المعايير القياسية لتراتب الشكوك الصادرة عن الهيئة القومية لضمان الجودة والاعتماد مع المعايير الأكاديمية لبرنامج الدكتوراه
الطبائيات تكتية طب دنها
مواصفات الفريخ:

مواصفات الفريخ بالمعايير الأكاديمية لبرنامج	مواصفات الفريخ بالمعايير القياسية للكراسك العليا (درجة الدكتوراه)
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. Continuously working on addition to the current knowledge in the field of parasitology.	فريخ برنامج الدكتوراه في الطب للمعروف يجب أن يكون قادرًا على: 1-1. الفهم الأساسي والمهني البحث العلمي. 1-2. العمل المستمر على إضافة للمعروف في مجال التخصص.
1.4. Competent to apply the analytical methods and critic the knowledge in the field of medical parasitology and related fields.	1-3. تطبيق المنهج التحليلي والنقد للمعروف في مجال التخصص والمجالات ذات العلاقة.
1.5. Proficiently integrate specialized parasitology knowledge with relevant knowledge and develop bilateral relations.	1-4. دمج المعرفة المتخصصة مع المعروف ذات العلاقة معالجتها والمجالات ذات العلاقة.
1.6. Show deep awareness of current problems and theories in the marginal area of medical parasitology.	1-5. إظهار وعي عميق بالمشاكل النظرية والتطبيقات الحديثة في مجال التخصص.
1.7. Identify problems professionally and find innovative solutions to solve them.	1-6. تحديد المشكلات المهنية وإيجاد حلولاً مبتكرة لحلها.



1.9. Oriented towards the development of methods and new tools and techniques for professional practice. 1.10. Use appropriate technological techniques to serve the professional practice in the field of clinical parasitology.	7-1 القن تعلق واسع من المهارات المهنية في مجال التخصص.
1.9. Oriented towards the development of methods and new tools and techniques for professional practice.	8-1 التجربة نحو تطوير طرق وفنون واساليب جديدة للتربية المهنية.
1.10. Use appropriate technological techniques to serve the professional practice in the field of clinical parasitology.	9-1 استخدام الوسائل التكنولوجية المناسبة بما يقسم ممارسة المهنية.
1.11. Communicate effectively and able to lead teamwork in various professional contexts.	10-1 التواصل بفاعلية وقابلية فريق عمل في مجالات مهنية مختلفة.
1.8. Able to make decision according to the available information.	11-1 اتخاذ القرار في ظل المعلومات المتاحة.
1.12. Manage the available resources efficiently, develop and work to maintain the available and find new resources.	12-1 توظيف الموارد المتاحة بكفاءة وتأمينها والعمل على ايجاد موارد جديدة.
1.14. Aware of his role in community serving and preservation of the environment.	13-1 الوعي بدوره في تنمية المجتمع والحفاظ على البيئة.
1.15. Behave with commitment, credibility, integrity and following the professional and ethical skills.	14-1 التصرف بما يقضي الالتزام بالنزاهة والمسئولية وفراغ المهنية.



1.13. Have ongoing commitment to self-development and the transfer of knowledge and experience to others.	15-1 الالتزام بالتطوير الذاتي المستمر ونقل حكمة وخبرته للآخرين.
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أ. المعرفة والفهم:

المعارف الأكاديمية لتدريس	المعارف العلمية العامة (General) (درجة الدكتوراه)
2.1.1. Describe basic concepts of parasites, terminology, geographical distribution, morphology, life cycles, transmission, pathology, pathogenesis, clinical picture, host parasite relationship, treatment, prevention and control of parasitic diseases.	بالمناهج دراسة برنامج الدكتوراه يجب أن يكون شاملاً على فهم وإدراك كل من: 1-2-1-1: المفاهيم والأساليب والمفاهيم من المعارف في مجال التخصص والمجالات ذات العلاقة.
2.1.13. Explain proper design, conduct & publishing of scientific research in parasitology.	2-1-2-1-1: أساسيات ومنهجيات وممارسات البحث العلمي ودوره المختلفة.
2.1.14. Outline basis of scientific knowledge essential for following the rules of medical research ethics.	2-1-2-1-2: الأساسيات والأخلاقيات والممارسات الأساسية في مجال التخصص.
2.1.11. Define details of right ethical & legal practices.	2-1-2-1-2: الأساسيات والأخلاقيات والممارسات الأساسية في مجال التخصص.
2.1.12. Recognize basics and essentials of medical quality control.	2-1-2-1-2: الأساسيات والأخلاقيات والممارسات الأساسية في مجال التخصص.



2.1.5. Outline basics of environmental parasitology.

2-1-2 التعرف على المظاهر البيئية للملوثات البيئية
على البيئة وطرق تنمية البيئة وصيانتها.

ب- المقررات الاختصاصية :

المعيار الأكاديمية للبرامج	المعيار التخصصية العامة (Generic) (الكليات الطبية) (إدارة التمريض)
2.2.1. Analyse, deduce, extrapolate & evaluate given parasitological problems.	2-2-1 تحليل، استنتاج، استقراء وتقييم المشاكل البيئية المعطاة.
2.2.2. Interpret parasitological, immunological and molecular reports.	2-2-2 تفسير التقارير البيئية، المناعية والمجزيئية.
2.2.3. Solve different parasitological problem (identification, diagnosis, treatment) in absence of adequate data.	2-2-3 حل المشاكل البيئية المختلفة (التعرف، التشخيص، العلاج) في غياب البيانات الكافية.
2.2.7. Design a research study that add to the existing specialty knowledge	2-2-7 تصميم دراسة بحثية تضيف إلى المعارف المتخصصة.
2.2.13. Publish scientific articles/ papers (in indexed journals).	2-2-13 كتابة مقالات علمية (في المجلات العلمية).
2.2.4. Evaluate different situations according to evidence, the causal relationship of parasites and diseases.	2-2-4 تقييم المظاهر البيئية وفقاً للعvidence، العلاقة السببية بين الطفيليات والأمراض.



2.2.8. Plan for development in the performance in diagnosis of parasitic disease and its application for community development.	2-3-2-6 التخطيط لتطوير الأداء في مجال التخصص.
2.2.12. Make appropriate decision, in different situations	2-3-2-7 اتخاذ القرارات المهنية في مواقف مهنية مختلفة.
2.2.11. Add to the specialty field through creativity & innovation.	2-3-2-8 الابتكار / الإبداع.
2.2.6. Join different knowledge to help in solving difficult problems.	2-3-2-9 توظيف المعارف المتعددة للمساعدة في حل المشكلات.

ج. مهارات مهنية وعقلية:

المعايير الأكاديمية للبرنامج	المعيار القياسية العامة (Generic) كفايات الطب (درجة الدكتوراه)
2.3.1. Perform direct diagnostic examination of specimens and carry out different staining methods.	2-3-2-10 الانتهاء من دراسة برلمنج الدكتوراه يجب أن يكون الخروج عن فهم وإدراك عال من (
2.3.2. Identify medically important parasites based on microscopic examination of stained preparations.	2-3-2-11 إتقان المهارات الأساسية والعقلية في مجال التخصص.
2.3.3. Identify different diagnostic tests commonly used for parasite infections.	
2.3.4. Judge results of parasitological, serological and molecular tests and apply it.	2-3-2-12 كتابة وتقييم التقارير المهنية.
2.3.5. Assess and improve methods and tools used in specialty.	



2.3.5. Assess and improve methods and tools used in specialty.	2-3-5- تقييم وتطوير الطرق والوسائل الخاصة في مجال التخصص.
2.3.6. Recommend up to date technology to advance practice in the field of parasitology.	2-3-6- استخدام الوسائل التكنولوجية بما يلزم الممارسة المهنية.
2.3.7. Recommend plan for development of professional skills and enhance juniors' skills.	2-3-7- التخطيط لتطوير الممارسة المهنية ولقدرة أداء الآخرين.
2.3.8. Prepare professional assessment reports.	

2- مهارات عامة و منتقلة:

المعيار الأكاديمية للبرنامج	المعيار القياسية العامة (Generic): (درجة الدكتوراه)
2.4.1. Communicate effectively using all recent methods.	2-4-1- إنشاء برنامج الدكتوراه واداءه ان يكون الخريج على فهم ودراسة كل من : 2-4-1-1 التواصل الفعال بكافة المخطلة
2.4.2. Use advanced information technology to improve higher professional practice	2-4-2- استخدام للتكنولوجيا المعلومات بما يلزم الممارسة المهنية
2.4.3. Educate and evaluate others.	2-4-3- تعليم الآخرين وتقييم اداءهم
2.4.4.Perform self-appraisal & seek continuous learning	2-4-4- التقييم الذاتي والتعلم المستمر.



2.4.5. Use any sources of information to obtain data	5-2-2 استخدام المصادر المختلفة للحصول على المعلومات والمعارف
2.4.6. Work as team leader as well as a member in larger teams	5-2-2 العمل في فريق وفريقه في العمل
2.4.7. Manage different scientific meetings and appropriately utilize time.	5-2-2 إدارة الاجتماعات العلمية والقدرة على إدارة الوقت





ملحق رقم 4

مصفوفة ملاحظة مواصفات التخرج والمعايير الأكاديمية لبرنامج دكتوراه الفلسفة في علم النفس مع الأهداف العامة ولوائح التعلم المستهدفة للبرنامج الماجستير مع أهداف و لوائح تعلم البرنامج

الأهداف الأكاديمية لبرنامج دكتوراه الفلسفة في علم النفس	مواصفات التخرج والمعايير الأكاديمية لبرنامج دكتوراه الفلسفة في علم النفس
Provide the postgraduate with the advanced and advanced knowledge and skills of medical psychology and research methodology in the field of neuroscience.	1.1
	1.2
	1.14
	1.15
Enable the postgraduate students to apply the statistical methods and utilize the knowledge in the field of medical psychology and research skills.	1.4
Integrate specialized knowledge with relevant knowledge and develop balanced relations	1.5
Show deep awareness of current problems and theories in the suggested area of medical psychology	1.6
Identify problems professionally and find innovative solutions to solve them.	1.7
	1.8
Be oriented towards the development of methods and new tools and techniques for professional practice.	1.8
Use of appropriate technological means to meet the professional practice.	1.10
Communicate effectively and lead the team in various professional contexts.	1.11
Employ available resources efficiently, develop and work to find new resources.	1.12
Have ongoing commitment to self-development and the transfer of knowledge and experience to others.	1.13
	1.13



برامج علم الطفيليات										المعيار الأكاديمي للبرامج
المعيار الأكاديمي للبرامج										
2.8.1	2.8.2	2.8.3	2.8.4	2.8.5	2.8.6	2.8.7	2.8.8	2.8.9	2.8.10	
										By the end of the program, the candidate should be able to: 2.1.1 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.
										2.1.2 Differentiate medically important vectors and snails and how to examine the parasites.
										2.1.3 Investigate different parasitological specimens and how to prepare permanent preparations.
										2.1.4 Describe basic principles of clinical methods of diagnosis as well as immunological methods of diagnosis and carry out them. 2.1.5 Discuss basis of environmental

[illegible]



مخرجات تعلم البرنامج										المخرجات الأكاديمية للبرنامج المهارات الأساسية
Intellectual skills										
2A.17	2A.17	2A.18	2A.8	2A.8	2A.7	2A.7	2A.4	2A.3	2A.2	
		✓			✓			✓	✓	By the end of Master program, candidate should be able to recognize the following: 22.1. Analyze, deduce, extrapolate & evaluate given parasitological problems and innovative solution for it.
				✓		✓		✓	✓	22.2. Interpret parasitological, immunological and molecular reports.
✓	✓			✓				✓		22.3. 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.
							✓			22.4. Evaluate according to evidence, the causal relationship of parasites and diseases.



					√	√	√		2.2.5. Solve different parasitological problem (identification, diagnosis, treatment) in absence of adequate data.
							√		2.2.6. Join different knowledge in help in solving difficult problems.
						√			2.2.7. Design a research study that add to the existing specialty knowledge.
			√						2.2.8. Plan for development in the performance in diagnosis of parasitic disease and its application for community development.
			√						2.2.9. Plan professional development courses to improve practice and enhance performance of juniors.
			√						2.2.10. Appreciate the danger of handling and use of infectious agents in community and environment as a part of their ethical settings.
			√						2.2.11. Make appropriate professional decisions, in different situations.

المهارات المهنية								المستوى المتوقع للمهارات المهارات المهنية
Practical Professional skills								
				2.2.5	2.2.6	2.2.7	2.2.8	



							2.4.5. The new source of information to obtain data
		✓	✓				2.4.6. Work as team leader as well as a member in larger teams
		✓	✓				2.4.7. Establish rules and standards to evaluate others
					✓		2.2.1. 2.4.8 Appropriately utilize time.

مثلاً 5

Program-courses L.Os matrix:

[illegible]



Courses	2.3-Intellectual skills											
	2a1	2a2	2a3	2a4	2a5	2a6	2a7	2a8	2a9	2a10	2a11	2a12
PARA701			✓							✓		
PARA702				✓								
PARA703			✓							✓		
PARA704			✓							✓		
PARA705									✓		✓	
PARA706	✓				✓		✓	✓				
PARA707		✓		✓	✓	✓				✓	✓	
PARA708			✓									
PARA709	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Courses	2.c: Professional & Practical skills							2.d: General & transferable skills						
	2a1	2a2	2a3	2a4	2a5	2a6	2a7	2d1	2d2	2d3	2d4	2d5	2d6	2d7
PARA701			✓			✓			✓			✓		
PARA702					✓			✓	✓			✓		
PARA703			✓		✓				✓			✓		
PARA704			✓		✓				✓			✓		
PARA705						✓			✓			✓		
PARA706	✓			✓			✓				✓		✓	
PARA707				✓			✓	✓				✓	✓	✓
PARA708					✓			✓	✓					
PARA709		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓



ملحق 6

توصيف المقررات التابعة للبرنامج

Benha University
Faculty of Medicine
Microbiology & Immunology Department

Course Specifications of Medical Microbiology & Immunology in MD Degree of Medical Parasitology

المستوى	اسم المقرر:	إحداثيات المقرر
بكالوريوس - أول	Medical Microbiology & Immunology	Para 701
	عدد الساعات الدراسية: 1.5 نظري: 1.2 عملي: 0.3	التخصص: مقررات التخصصات الطبية
By the end of the course the graduate should be efficiently able to: 1. Have the professional knowledge of the microorganisms affecting human beings all over the world and the relation between them and the parasites. 2. Recognize the pathology, clinical symptoms, complications and the perform the laboratory tests needed for diagnosis of each disease. 3. Gain the professional knowledge about the structure and function of the immune system so as to perform immunological studies needed in his/her main specialty.		الأهداف المقرر
By the end of the course, the student should be able to:		3-المستهدف من المقرر:



A1- Identify the microorganisms affecting human beings all over the world particularly those related to parasites. A2- Describe the metabolism and genetics of organisms. A3- Describe the pathology, clinical symptoms and complications of each disease. A4- Summarize the laboratory tests needed for diagnosis of each case. A5- Name some of the drugs and instructions used for treatment of each case. A6- Describe some infection control methods. A7- Describe the structure and function of immune system.				المعلومات والمفاهيم
b1- Differentiate between the different microorganisms (Bacteria, viruses and fungi). b2- Differentiate between the different types of bacteria using staining and culturing methods. b3- Differentiate between organisms affecting the same body parts.				المهارات الذهنية
c1- demonstrate micro-organisms on morphological tests. c2- Identify and perform the methods of staining, culturing and biochemical reactions. c3- perform some serological tests used in diagnosis. c4- Handle of samples.				مهارات ذهنية المتقدمة والمقرر
d1- Use the computer and internet to gather scientific informations. d2- Practice group co-ordination.				مهارات التعلم
Topic	Lecture	Practical	Course BLOs	المستوى المقرر
General Bacteriology	4	4	a1,a2,b1	
Systemic bacteriology			a3,a4,a5,b1,b2,b3,a5,c2,c4	
Myxology	4	4	a3,a4,a5,a6, b1,b2,b3, c1,c2,c4	
Virology	3	3	a3,a4,a5,a6, b1,b2,b3	
Neomicrobiology	4	4	a3,a4,a5,a6, b1,b2,b3, c1,c2,c4	
Immunology	4	4	A7,c3,c4,d1,d2	
Total	20	20		



4-lectures

2-practical lessons

3- Practical assignments and sample collection

Online lectures : BU-IJMS baghdad university learning management system : 4

طرق التدريس			نواع التعلم لتدريس	
Seminars	Tutorial	Modified Lectures		
■		■	2.a.1	المعرفة والتفهم
■		■	2.a.2	
■		■	2.a.3	
■	■	■	2.a.4	
■		■	2.a.5	
■		■	2.a.6	
■		■	2.a.7	
■		■	2.b.1	المهارات العقلية
■	■	■	2.b.2	
■		■	2.b.3	
■		■	2.c.1	المهارات المهنية
■		■	2.c.2	
■		■	2.c.3	
■		■	2.c.4	
		■	2.d.1	المهارات العامة
		■	2.d.2	

-5-

لا يوجد

إجمالي: المعلم و التعلم الذاتي
التقنيات المستخدمة:

7- تقويم الطلاب:

		طرق التقويم	
Practical exam	Structured Oral Exam	Written exam	
■	■	■	2.a.1
	■	■	2.a.2
	■	■	2.a.3



		■	■	2.a.4		
		■	■	2.a.5		
				2.a.6		
				2.a.7		
	■	■	■	2.b.1		
	■		■	2.b.2		
	■	■	■	2.b.3		
	■			2.c.1		
	■			2.c.2		
	■			2.c.3		
	■			2.c.4		
		■		2.d.1		
	■	■		2.d.2	المهارات العامة	
- Written exams - Oral exam - Practical exam						الامتحانات المسبقة
Final exam in May or November						امتحانات
-Written exam: 125 marks -practical:75 marks - Oral exam: 50 marks						موزع على الفترتين
- Course Notes: Post graduate Lecture notes prepared by the staff members in the department Medical Microbiology and Immunology by Ken S., 2009.						ملاحظات المحاضرات
- Problem based Microbiology by Swapan K., 2006.						ملاحظات
- A colored Atlas of Microbiology						ملاحظات
http://mic.sagepub.com http://www.microbes.info/ http://transverse.msu.edu/cgi-bin/online/course/category.php?id=64						مصادر ومراجع إضافية

اسم الطالب: رقم مجلس القسم العلمي:



Benha University
Faculty of Medicine
Pathology Department

Course Specification of Pathology in MD Degree in Medical Parasitology

1- معلومات المقرر	
اسم المقرر:	Paras702
المستوى:	طالعة اولى
2- أهداف المقرر	
By the end of this course the graduate should be able to gain the professional knowledge and understanding of general pathology and special pathology as related to the main field of medical Parasitology. And can accurately and independently interpret the gross and microscopic pathology specimens.	
3- المتطلبات من المقرر	
By the end of the course, the student should be able to: a1- explain the deviation or change in the normal structure and function of the body on the macro- and micro levels; general pathology.	



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a2- describe Cellular injury reversible and irreversible, causes, effects e.g. degeneration, necrosis and apoptosis (programmed cell death). a3- discuss Inflammation: causes, classification, fate, complications, healing and repair. a4- identify Infectious diseases; viral, bacterial, fungal and parasitic and tissue response to these invaders. a5- discuss Immunity, factors affecting immune response, disorders of the immune system a6- explain Nutritional deficiencies and their effects on the body system a7- describe Cellular growth disturbances e.g. atrophy, hypertrophy, hyperplasia, metaplasia, and dysplasia.				
b0- Interpret the data through reading the reports reaching to the pathology laboratory along with the biopsies and excised specimens, including history, clinical examination, radiological and laboratory investigations other than the histopathology.				ب-المهارات القاعدية
c1- demonstrate the gross pathology specimens kept in the jars and pictures taken for unavailable gross pathology in the museum, put a diagnosis or differential diagnosis. c2- Describe the gross picture of the specimens and deviation of normal regarding the size, site, shape, color localized abnormality. c3- deal with the specimens, fixation, trimming, processing, tissue sectioning, hematoxylin and eosin staining. c4- Prepare and examining the slides by the bright field microscope and putting a diagnosis or differential diagnosis. c5- Use the microscope monitor system in discussing the slides in groups to reach a result.				ج-المهارات المتوسطة الاعتمادية بالمتقنين
d0- Use standard computer program effectively. d2- Utilize computers in consultation with other pathology departments via Teleconferences. d3- Use the computer in searching about recent data in the literature via the internet.				د-المهارات العالية
Topic	No. of hours	Lectures	Practical/ Museum	في المختبر
1-General pathology:				
1.1. Introduction	1	1		
1.2. Inflammation, Repair, Cell injury and cell death	3	2	1	



1.3. Circulatory diseases	2	2		
1.4. Infectious diseases	3		2	1
1.5. Immunopathology	2	2		
2. Systemic pathology:				
2.1. Cardiovascular diseases	3	2	1	
2.2. Respiratory diseases	2	1	1	
2.3. Gastrointestinal diseases	3	2	1	
2.4. Diseases of hepatobiliary system	1	2	1	
2.5. Diseases of exocrine pancreas and peritoneum	1		2	1
2.6. Diseases of the urinary system and male and female genital system	1	2	1	
2.7. Diseases of the musculoskeletal system and nervous system	1	2	1	
2.8. Blood diseases, the lymph node and spleen		4	3	1
2.9. Immunopathology	4	2	1	



2.10. Specimen preparation and examination	6	3	4
Total	45	30	15

1- Lectures 2- Practical sessions 3- Discussions 5. On line lectures : BU-LMS baghdad university learning management system	المادة العلمية والتطبيق
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طرق التدريس			نواتج التعلم للمقرر	
Seminars	Tutorial	Modified Lectures		
■		■	2.a.1	المعرفة والفهم
■		■	2.a.2	
■		■	2.a.3	
■	■	■	2.a.4	
■		■	2.a.5	
■		■	2.a.6	
■		■	2.a.7	
■		■	2.b.1	المهارات الذهنية
■	■	■	2.b.2	
■		■	2.b.3	
■		■	2.c.1	المهارات العملية
■		■	2.c.2	
■		■	2.c.3	
■		■	2.c.4	المهارات العلمية
		■	2.d.1	
		■	2.d.2	

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طرق التدريس	نواتج التعلم للمقرر
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إعداد: أ. م. هادي
والتدقيق: أ. م. هادي
المراجعة: أ. م. هادي



Practical exam	Structured Oral Exam	Written exam			
■	■	■	2.a.1	المعرفة والتفكير	
	■	■	2.a.2		
	■	■	2.a.3		
	■	■	2.a.4		
	■	■	2.a.5		
			2.a.6		
			2.a.7		
■	■	■	2.b.1	المهارات التحليلية	
■		■	2.b.2		
■	■	■	2.b.3		
■			2.c.1	المهارات العملية	
■			2.c.2		
■			2.c.3		
■			2.c.4		
	■		2.d.1	المهارات البحثية	
■	■		2.d.2		
مجموع					
- Written exams			١- تقرير الطالب		
- Oral exam			٢- الامتحان		
- Practical exam			المستخدمة		
Final exam in May or November			مستقر		
-Written exams: 125 marks practical: 75 marks.			مجموع الدرجات		
- Course Notes: Post graduate Lectures notes prepared by the staff members in the department.			١- قائمة الكتب والمراجع		
-Department practical & Museum notes			٢- ملحق		
- Robbins basic pathology, 2017.			مستند مرجع		
-Principals of general pathology					
-Principals of special pathology					
-Pathologic Basis of Disease, Kumar, Cotran, Robbins.			مستند مرجع		
http://www.kumipath.com/Website-Pathology			مستند مرجع		



http://pcr2.puh.uah.edu/review/Parasitology_Education_WebSite/index.html
http://library.med.uah.edu/WebPath/webpath.html

المادة : الج

رئيس مجلس القسم العلمي :

استاذ الفيزياء : أ.م. مكيه يوسف



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Besha University
Faculty of Medicine
Clinical Pathology Department

Course Specifications of Clinical Pathology for MD Degree in Medical Parasitology

الاسم	اسم المقرر	إجمالي الساعات
Medical Clinical Pathology	Para703	3.5
By the end of this course the graduate should have the professional knowledge and skills of hematology, immunology, clinical chemistry and microbiology to support his/her study of the main specialty.	التخصصات	3.5
By the end of the course, the students should be able to:	المتطلبات التعليمية	3.5
a.1- discuss information about the physiology of blood cells (RBCs, WBCs and platelets) and hemostasis.	1- To interpret lab investigations as blood picture, bone marrow examination, results of lymph nodes, spleen biopsy and tests for coagulation disorders.	3.5
a.2- explain information about the anatomy of the lymphatic and hematopoietic organs.	2- differentiate between samples of parasitic infection and other samples.	3.5
a.3- discuss the important causes, presentation and management of various types of anemia.	c.1- Perform a complete hematology examination.	3.5
a.4- identify causes, investigation and management of bleeding and coagulation disorders.	c.2- Perform different staining methods.	3.5
a.5- discuss various parasitic diseases in different samples.	c.3- Perform complete urinary, sputum and fecal examinations.	3.5
a.6- describe chemical and immunological changes associated with various diseases especially parasitic diseases.	c.4- Perform serological tests for detection of parasitic antibodies or antigens.	3.5
a.7- identify recent advances in diagnosing various hematological disorders as bone marrow transplantation, immunological treatment.	c.5- Examine lymph nodes, liver and spleen and to know causes and management of lymphadenopathy, hepatomegaly, and splenomegaly.	3.5
b.1-To interpret lab investigations as blood picture, bone marrow examination, results of lymph nodes, spleen biopsy and tests for coagulation disorders.	D1- Work in a team.	3.5
b.2- differentiate between samples of parasitic infection and other samples.	d2- Communicate well with his colleagues, top managers and subordinates.	3.5
c.1- Perform a complete hematology examination.	d3- Use computers in conducting researches.	3.5
c.2- Perform different staining methods.		3.5
c.3- Perform complete urinary, sputum and fecal examinations.		3.5
c.4- Perform serological tests for detection of parasitic antibodies or antigens.		3.5
c.5- Examine lymph nodes, liver and spleen and to know causes and management of lymphadenopathy, hepatomegaly, and splenomegaly.		3.5
D1- Work in a team.		3.5
d2- Communicate well with his colleagues, top managers and subordinates.		3.5
d3- Use computers in conducting researches.		3.5



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Topics	Hours of lectures	Practical	Course ELP's
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
-DBS	1	1	
-WBCs	2	2	a1, a2, a3,a5, b1, b2,b3, c1
Normal hemostasis	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 liver/kidney:			
- 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, c1,c2,c3
Clinical immunology:	2	2	a6,a7
-Diagnosis of infectious diseases	2	2	a5,a6,a7,b3, b5
-Immunological aspects of parasitic diseases	2	2	a6,a7,c4, d1,d2,d3

المحاضر: الدكتور



- 1- Lectures
- 2- practical lessons (in the University hospital lab.)
- 3- searches in the library for Text Books in case taking ...
- 4- searches in computers
- 5- On line lessons - BCU-LMS benha university learning management system

3- أساليب التعليم والتعلم

طرق التدريس			توزيع التعلم المستمر	
Seminars	Tutorial	Modified Lectures		
■		■	2.a.1	المعرفة والمفهم
■		■	2.a.2	
■		■	2.a.3	
■	■	■	2.a.4	
■		■	2.a.5	
■		■	2.a.6	
■		■	2.a.7	المهارات الأساسية
■	■	■	2.b.1	
■		■	2.b.2	
■		■	2.b.3	المهارات المهنية
■		■	2.c.1	
■		■	2.c.2	
■		■	2.c.3	المهارات لخدمة
■		■	2.c.4	
■		■	2.d.1	
■		■	2.d.2	

مراجع V

4- أساليب التعليم والتعلم
التقنيات المتعددة

5- تقييم الطلاب

		طرق التقييم			
Practical exam	Structured Oral Exam	Written exam			
■	■	■	2.a.1		
	■	■	2.a.2		
	■	■	2.a.3		
	■	■	2.a.4		
	■	■	2.a.5		
			2.a.6		
			2.a.7		



				2.b.1		
				2.b.2		
				2.b.3		
				2.c.1		
				2.c.2		
				2.c.3		
				2.c.4		
				2.d.1		
				2.d.2	امتحانات الشفوية	
- Written exams - Oral exams	الأساليب المستخدمة:					
Final exam in May or November						ب- التوقيت:
Written exams : 125 marks Oral exams : 50 marks - practical : 75 marks.						ج- توزيع الدرجات:
						د- قائمة المراجع والمراجعين:
- Post graduate Lecture notes prepared by the staff member of the department - Manual of Medical Laboratory Techniques by Rantakolainen S, Solokanta KN(2012). - Clinical Pathology, Haematology and Blood Banking by: Maheshwari Nanda(2008). - Mamont(2004): District laboratory practice in Tropical countries.						هـ- كتب مرجعية:
http://ncscr.ac.il/data.gov.il/gg/2/2.htm http://www.google.com http://www.researchgate.net						و- مصادر طبية أو غير طبية أخرى:

د. عبد المنعم النعماني - أ.د.

أستاذ المساعد - أ.د. محمد العزوي



Benha University
Faculty of Medicine
Biochemistry Department

Course Specifications of Biochemistry for MD Degree in Medical Parasitology

أهداف المقرر		
المستوى	اسم المقرر	الرمز الكودي
تكنولوجيا جزء أول	Medical Biochemistry	Para104
عدد المرات التي تدرس فيها: الطريق 3.5 ساعة معتمدة نظري 3 ساعات معتمدة		المحتوى المقرر المطلوب
By the end of the course the post graduate graduate is should be able to have the professional knowledge of the biochemistry that serves in the field of parasitology diseases.		أهداف المقرر
المستهدف من تدريس المقرر		
By the end of the course, the student should be able to:		



A1- discuss the biochemical importance of intermediary metabolism (Anabolic and catabolic) a2- identify the importance of clinical biochemistry a3- Explain the role of vitamins, Minerals a4- explain hormonal action			المعلومات والمظاهر
B1- Integrate basic biochemical and physiological facts with clinical data			براهين الأدبية
C1- identify the biochemical defect C2- perform some laboratory tests for early diagnosis e. Diagnose the affected biochemical deficiency.			ج. المهارات العملية أ. أساسيات التفكير
D1- Acquire skills to use computer to enter biochemistry web sites and self learning E2- work in a team for accurate diagnosing of diseases using internet.			د. المهارات العلمية
Topics	Lectures	Practical	(ILO's criteria)
(1) Biological oxidations	3		a1,a2
(2) Glycolysis and citric acid cycle	4	2	a1,a2
3) Other Pathways	3	2	a1,a2,a2
(4) Fat metabolism	3	2	a1,a2,a2,a4
(5) Protein metabolism	4	3	a1,a2,b1,b2,b3,a1,a1,a2,a2
(6) Integration of metabolism- Mechanisms and regulation	2		a1,a2,b1,b2,b3,c1,c2
7) Metabolism of nucleosides	3		a1,a2,b1,b2,b3,c1,a2,a4
8) Porphyrin metabolism and heme biosynthesis and catabolism	3		a1,a2,a3,b1,b2,b3,c1,c2,a5
(9) Mineral metabolism Tissue chemistry			
(10) Endocrine chromosomes	3	2	a1,a2,b1,b2,b3,c1,c2
(11) Hormones	3		a1,a2,a4,b1,b2,c1



- 4.1- Lectures
4.2- Searches in computers (assignments)
4.3- practical
5- On line lectures : BU-LMS bediha university learning management system

5- أساليب التعليم
والتعلم

طرق التدريس			نواتج التعلم المتقرر	
Seminars	Tutorial	Modified Lectures		
■		■	2.a.1	المعرفة والمفهوم
■		■	2.a.2	
■		■	2.a.3	
■	■	■	2.a.4	
■		■	2.a.5	
■		■	2.a.6	
■		■	2.a.7	
■		■	2.b.1	المهارات الاليفية
■	■	■	2.b.2	
■		■	2.b.3	
■		■	2.c.1	المهارات المهنية
■		■	2.c.2	
■		■	2.c.3	
■		■	2.c.4	
		■	2.d.1	المهارات العامة
		■	2.d.2	

لا يوجد

5- أساليب التعليم
والتعلم التي تفرقت
المحددة

7- تقييم الطالب

طرق التقييم				
Practical exam	Structured Oral Exam	Written exam		
■	■	■	2.a.1	=
	■	■	2.a.2	
	■	■	2.a.3	



				2.a.4	
				2.a.5	
				2.a.6	
				2.a.7	
				2.b.1	
				2.b.2	
				2.b.3	
				2.c.1	
				2.c.2	
				2.c.3	
				2.c.4	
				2.d.1	
				2.d.2	
				المجموع	
				الدرجة	
- Written exams. - Oral exam.					- الامتحان - المصاحفة
Final exam in May or November					بالتوقيت
-Written exams :125 marks -Oral exams: 50 marks -practical :75 marks.					توزيع الدرجات
					القائمة الكتب والمراجع
- Postgraduate Lectures notes prepared by the staff members in the department.					المحاضر
1. Text book of medical biochemistry by Renu Shende(2011)					مكتبات الجامعة
2. Essentials of Biochemistry by Nank Pankaja (2012).					
3- Clinical Biochemistry, by Vasudevan DM, S Sankaranarayanan, Vaidyanathan Kannan, K Geetha Dhandapani(2011)					مكتبات الجامعة
3-Lippincott's Illustrated reviews biochemistry, Chaurpe, PC, Harvey, RA, 2005					
- http://www.ncbi.nlm.gov/ - http://www.rtfb.org/ - www.geneva.ch/ja/kogg/regulation					معلومات علمية في الانترنت



Benha University
Faculty of Medicine
Microbiology & Immunology Department

Course Specifications of Medical Genetics in MD Degree in Medical Parasitology

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معلومات المقرر		
الرمز الكودي	اسم المقرر	المستوى
Para 785	Medical Genetics	المقرر: جزء أول
التخصص	عدد الوحدات الدراسية	عدد الساعات
المقرر: 3.5 ساعة	المقرر: 3.5 ساعة	المقرر: 5 ساعة
By the end of this course the graduate should be able to:		
Have the basic knowledge about genes morphology, structure and function.		
concepts of genetics and inheritance, genetic disorders and classification of genetic diseases and to prepare himself for further studies later in the course of Modern Genetics		
المخرجات من المقرر		
By the end of the course, the student should be able to:		
a.1: identify the stages of mitosis and meiosis, as well as the cell cycle, and explain the significance of each	المخرجات والمهارات	
a.2: discuss the chemical nature of genetic material (DNA & RNA)		
a.3: describe how the DNA is organized to serve as genetic materials (gene and genome)		
a.4: describe the normal chromosome (structure & number).		
a.5: explain how the genetic information transferred to RNA during the process of transcription.		
a.6: identify the genetic code		
a.7: explain the translation of genetic information on mRNA into polypeptide chains.		
a.8: discuss gene mutation and DNA repair on the molecular levels.		
a.9: identify chromosomal numerical and structural alterations.		
a.10: illustrate the basic concepts of Mendelian and non Mendelian inheritance.		
a.11: identify the various types of chromosomal disorders and biochemical		



genetics.			
a.12- identify the new concepts of DNA technology.			
a.13- Gain the knowledge of the use of this technology in the advances disease.			
B1- Integrate and evaluate genetic information and data from a variety of sources in order to gain a coherent understanding of theory and practice.			المهارات الذهنية
b2- Find and evaluate new solutions to many kinds of Genetic problems.			
c-1- diagnose gene disorders			المهارات الذهنية العلمية والتطورية
D1- work in a team.			المهارات العملية
d3- Think scientifically.			
d4- Create the tendency to apply the knowledge in the clinical fields.			
Topic	Lectures	Practical	المستوى التطبيقي
Introduction (from gene to genome)	2		
Patterns of inheritance	2	1	
Mendelian, non Mendelian, Multifactorial			
Update in medical genetics	2	2	
Chemistry of nitrogenous	2	2	
Basics DNA replication			
RNA synthesis			
Genetic code			
Protein synthesis			
Regulation of gene expression			
DNA alterations			
Molecular biology and Parasitology	2	2	
Nuclear contents	2	2	



Cell divisions (mitosis and meiosis)	
Chromosome structure and function	
Mutations	3
Mendelian disorders	
Transmission pattern of	
Single gene disorders	
Disorders associated with	4
defects in structural proteins	3
Disorders associated with	
defects in receptor proteins	
Disorders associated with	
enzyme defects	
Disorders associated with	
defects in proteins that	
regulate cell growth	
Disorders of multi-factorial	2
inheritance	
Cytogenetic disorders	2
Single gene disorder with	2
non classic inheritance	
Genetics and cancer	1
Immunogenetics	2
Genetic engineering	2
4.1-lecture (data show, video clip)	4- أسئلة التعليم والتفكير
4.2-class discussion	
4.3-graduate's group-project	
4.4-CDS' slide projector	
5. On line lectures : BCU-LMS babylon university learning management system	



طرق التدريس			نواتج التعلم لتطبيقات	
Seminars	Tutorial	Modified Lectures		
■		■	2.a.1	المعرفة والفهم
■		■	2.a.2	
■		■	2.a.3	
■	■	■	2.a.4	
■		■	2.a.5	
■		■	2.a.6	
		■	2.a.7	
		■	2.a.8	
		■	2.a.9	
		■	2.a.10	
		■	2.a.11	
		■	2.a.12	
		■	2.a.13	
■		■	2.b.1	المهارات التقنية
■	■	■	2.b.2	
■		■	2.c.1	المهارات العامة
		■	2.d.1	
		■	2.d.2	
		■	2.d.3	
مجموع			إجمالي التقييم والتعلم الكلي للتطبيقات المستهدفة	
7- التقييم النهائي				

		طرق التقييم		
Practical exam	Structured Oral Exam	Written exam		
■	■	■	2.a.1	
	■	■	2.a.2	
	■	■	2.a.3	
	■	■	2.a.4	



		■	■	2.a.5	
			■	2.a.6	
			■	2.a.7	
			■	2.a.8	
			■	2.a.9	
			■	2.a.10	
			■	2.a.11	
			■	2.a.12	
			■	2.a.13	
	■	■	■	2.b.1	امور ذات
■			■	2.b.2	
■				2.c.1	...
■				2.c.4	
		■		2.d.1	
■		■		2.d.2	امور ذات
				2.d.3	العلماء
- Written exams - Oral exams					الامتحانات
Final exams in May or November					امتحانات
-Written exams: 125 marks -Oral exams: 50 marks -practical: 75 marks					مجموع الدرجات
إضافة الكتب والمراجع:					
- Postgraduate Lectures notes prepared by the staff members in the department.					المذكرات
1- An Introduction to Genetics and Plant Medicine by Deepika Deka, Narendra Malhotra, 2010 2- Review of genetics, by Kamran S. Senbil, 2009					مراجع إضافية
1) Discovering Genomics, Proteomics and Bioinformatics 2nd edition - by A.Molecular Campbell and Liane J. Heyer (ISBN 0-8053-4721-4, published by Cold Spring Harbor Laboratory Press and Benjamin Cummings, 28, February, 2006). 2) Essentials of Medical Genetics 13th edition-by Alan E.H.Emery, ChurchillLivingstone, 2007.					مراجع إضافية



- By the end of this course the graduate should be able to:
- a1- Describe the spectrum of parasitic diseases.
 - a.2- Explain the three interacting ecological factors—agent, host, and environment—affecting the occurrence of disease.
 - a.3- Describe the determinants of health on the individual, the family, and the community levels
 - a.4- Describe the epidemiology and public health importance of human parasitic infections on the individual, the family and community levels.
 - a.5- Define patterns of care in preventive and curative, and describe the levels of preventive care.
 - a.6- List at least four uses for health indicators in Parasitology.
 - a.7- Describe the public health surveillance system and its use in the community setting
 - a.8- Define data sources for vital statistics
 - a.9- Define the screening tests pertinent to selected diseases and the at-risk approach in the application of screening tests.
 - a.10- List at least four types of study designs
 - a.11- Describe the study design, uses, and limitations
 - a.12- Explain the usefulness of screening tests, and calculate sensitivity, specificity, and predictive values.
 - b.1- Evaluate indicators of health and disease.
 - b.2- Identify prevalent health problems in a community, using various epidemiological strategies.
 - b.3- Anticipate and participate in investigation of an epidemic/outbreak as part of a health team.
 - b.4- Identify trends in health and disease.
 - b.5- select appropriate health promotion, disease prevention, and control measures.
 - b.6- choose disease prevention and control measures to identified priority

المعلومات والمفاهيم

مهارات التطبيق



communicable and noncommunicable diseases. b.7- select health belief or theories to different community health problems. b.8- Identify behavioral and social variables impacting health and disease b.9- select appropriate communication strategies for use with clients, the health care team, and the community. b.10- Select and use appropriate health education methods and materials. b.11- Counsel effectively in the health care environment and prevention of parasitic diseases				
C1- Perform community diagnosis for health problems (of parasitic origin) in the locality. c.2- Participate in conducting public health surveillance c.3- Advocate appropriately in the health care setting.				ج. المهارات المهنية المهارات بالمرور
D1- Communicate well with his colleagues. d2- work in a team for accurate diagnosing of diseases d3- Use standard computer programs effectively (windows, office programs) d4- Utilize computers in conducting research and to collect scientific data.				المهارات العامة
Topic	Lectures	Tutorial	Course HAQ's	المستوى المعرفي
-Epidemiology of selected parasitic diseases.	1	1	a1,a2,a3, a4,a5,a6, b1,b2,b3,b4	
-Situations in Egypt and globally Importance and methods of prevention.	2	1	b5,b6,b7, c1,c2,c3	



-Parasitic infectious Risk factors	5	1	a1,a2,a3, a4,a5,a6, b1,b2,b3,b4, b5,b6,b7, c1,c2,c3
-Parasitic zoonotic and occupational diseases	2	1	a1,a2,a3, a4,a5,a6, b1,b2,b3,b4, b5,b6,b7, c1,c2,c3
-Arthropods born parasitic diseases	2	1	a1,a2,a3, a4,a5,a6, b1,b2,b3,b4, b5,b6,b7, c1,c2,c3
-Emerging and reemerging parasites	1	1	a4,a5,a6, b2, c2
-Investigations of a parasitic epidemic, the attack rates	1	1	a4,a5,a6, a7, b6,b9, d1,d2,d3, d4
-Methodology	1	2	a10,a11, a12, b10, d2,d3, d4
-Statistics Terminology and rationale			a8, a9, a9
Data collection	5	2	a7,a8,a9, b3, b6



Types of data		b10,
Tabulation of data		b11, c1, d1, d1,
Graphical presentation of data		d2,
Measures of dispersion		d3, d4
Normal distribution curves		
-International classification of diseases,	2	1
-International death certificate,	1	1
-Study design		a1,a4,b1
Cross sectional study and the prevalence rate		a1,a4,b1
cohort study, incidence rate, Odds ratio,	2	1
Sampling	3	1
		a1,a4,b1, a12, b6, c1, d1,d2, d3, d4
		a7, a9, d2
1- Lecture		
2- Computer searches (assignments),		
3- Tutorial		
5- On line lecture : BULMS bokha university learning management system		
طرق التدريس	ناتج التعلم للمقرر	

بأساليب التعليم والتعلم



Seminars	Tutorial	Modified Lectures	
■		■ 2.a.1	المعرفة والفهم
■		■ 2.a.2	
■		■ 2.a.3	
■	■	■ 2.a.4	
■		■ 2.a.5	
■		■ 2.a.6	
		■ 2.a.7	
		■ 2.a.8	المهارات التطبيقية
		■ 2.a.9	
		■ 2.a.10	
		■ 2.a.11	
		■ 2.a.12	
■		■ 2.b.1	
■	■	■ 2.b.2	
		2.b.3	
		2.b.4	
		2.b.5	
		2.b.6	
		2.b.7	
		2.b.8	المهارات المهنية
		2.b.9	
		2.b.10	
		2.b.11	
■		■ 2.c.1	
		■ 2.c.2	
		■ 2.c.3	
		■ 2.d.1	المهارات العمامة
		■ 2.d.2	
		■ 2.d.3	
		■ 2.d.4	
2. ج			المحاضر



				والتعليم العالي والبحث العلمي المستوى الثاني الدرجة الثانية الدرجة الأولى
Written essays Oral essays				
Practical exam	Structured Oral Exam	Written exam	نوع الامتحان	
•	•	•	2.a.1	المعرفة والتفهم
	•	•	2.a.2	
	•	•	2.a.3	
	•	•	2.a.4	
	•	•	2.a.5	
			2.a.6	
			2.a.7	
			2.a.8	
			2.a.9	
			2.a.10	
			2.a.11	
			2.a.12	
•	•	•	2.b.1	المهارات التطبيقية
•	•	•	2.b.2	
•	•	•	2.b.3	
			2.b.4	
			2.b.5	
			2.b.6	
			2.b.7	
			2.b.8	
			2.b.9	
			2.b.10	
			2.b.11	
•			2.c.1	المهارات التحليلية
•			2.c.2	
•			2.c.3	
	•		2.d.1	



•	•	2.d.2	المهارات العمية		
		2.d.3			
		2.d.4			
Final exam in May or November					في الخريف
Written exam: 150 marks		Oral exam: 100 marks		جميع التوزيعات	
Department notes, lectures and handouts					ملفات الكتب والمراجع محاضرات
Mayo- Rosanna Public health and preventive medicine, Prentice- Hall International Inc.					كتاب مرجع
1- Dimensions of Community Health, Boston Star Ridge Delagun 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.					كتاب مرجع
1- American Journal of Epidemiology 2- British Journal of Epidemiology and Community Health 3- WWW. CDC and WHO sites.					مصادر وثائق علمية أو أخرى ذات صلة

أستاذة العامة أ.د. محمود فوزي - رئيس مجلس القسم العلمي - أ.د.



Benha University
Faculty of Medicine
Hepatology and Gastroenterology Department

Course Specifications of Hepatology and gastroenterology in MD Degree of Medical Parasitology

الاسم المقرر	اسم المقرر	إحداثيات المقرر
المقرر Hepatology and gastroenterology	Paras707	الرمز 707
عدد الوحدات الدراسية نظري: 3.5 ساعة معتمدة عملي: 1.5 ساعة معتمدة	المحتوى المقرر، الممارسات المهنية	2. أهداف المقرر
By the end of this course, the graduate should be able to have basic knowledge about fevers and its common causes. Also, the etiology, pathogenesis, clinical picture, complications and management of the most common infectious diseases. And to understand the most common gastrointestinal and hepatic diseases especially those prevalent in our country and be able to diagnose and manage them in an efficient degree to help him/her as a future medical parasitologist.		3. المصطلحات من المقرر:
By the end of the course, the student should be able to: By the end of the course, the graduate is expected to practice the following: a1- identify the common infectious, hepatic and gastrointestinal diseases worldwide and the most common diseases and public health problems in our country. a2- explain the causation of diseases and new concepts in their pathogenesis. a3- identify the clinical picture, complications and differential diagnosis of common infections. a4- explain the importance of good history taking as a first step to solve a		1. المصطلحات والمفاهيم



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medical problem. a5- describe the common diagnostic, laboratory, radiological and other techniques. a6- discuss the various therapeutic methods/ alternatives used for common diseases (supportive therapy, nutrition, pharmacotherapy, surgical treatment) a7- identify general methods for health promotion and disease prevention. By the end of the course, the student should be able to: b1- Interpret, conclude and discuss data collected from history and examination. b2- interpret data acquired through history taking to reach a provisional diagnosis. b3- interpret physical findings and correlate them with patient's symptoms. b4- identify problems and find solutions. b5- Select from different diagnostic techniques the ones that help to reach a final diagnosis. b6- Select the most helpful laboratory investigation to confirm the diagnosis. b7- integrate medical/ dental solutions to problems.	ب- التعرف على الفيزياء
C1- Perform general and abdominal examinations of patients. c2- Diagnose common infectious diseases (systemic, bacterial and viral) and be able to differentiate them clinically and laboratory. C3- Perform basic diagnostic and therapeutic techniques and measures (pulse, temperature, giving injections and intravenous fluids, taking aspirations from pathological body fluids). C4- identify patients with life threatening conditions and initiate the proper management and change it according to patient's needs. c 5look for physical signs and how to interpret them. c 6 take a thorough medical history.	القيام بالفحص السريري التشخيص بالسريرية



D1- Work in a team. D2- Communicate well with his colleagues, top management and subordinates. D3- Establish a good patient-physician relationship. D4- Use computers in conducting researches.		المهارات العامة																					
Diagnosis of a case of fever Ascariasis Nosocomial infections Strongyloidiasis Schistosomiasis Capillariasis Trichinosis Fascioliasis Leishmaniasis Heterophyes heterophyes Haemonchus contortus Hymanolepis nana, diminuta Hybrid disease Protozoal Diseases	Pyrexia of unknown origin Helminthic Diseases Tissue larva infestation Parasitosis treatment Filariasis Chimerchia stomax Onchocerciasis Toxocariasis Treatment of helminthic infections Dipylidobothrium latum Echinococcosis, Ancylostomiasis Malaria	المستوى المتقدم																					
3- Lectures 2-practical lessons (work and class rounds) 3-searches in the library for Text Books in case taking 4- Assignments On line lectures - BU-LMS (Baghdad University Learning management system) 5-		أساليب التعليم والتعلم																					
طرق التدريس <table border="1"> <thead> <tr> <th>Seminars</th><th>Tutorial</th><th>Modified Lectures</th></tr> </thead> <tbody> <tr><td>■</td><td></td><td>■</td></tr> <tr><td>■</td><td></td><td>■</td></tr> <tr><td>■</td><td></td><td>■</td></tr> <tr><td>■</td><td>■</td><td>■</td></tr> <tr><td>■</td><td></td><td>■</td></tr> <tr><td>■</td><td></td><td>■</td></tr> </tbody> </table>		Seminars	Tutorial	Modified Lectures	■		■	■		■	■		■	■	■	■	■		■	■		■	نتائج التعلم المتوقعة المعرفة والمهارة
Seminars	Tutorial	Modified Lectures																					
■		■																					
■		■																					
■		■																					
■	■	■																					
■		■																					
■		■																					



		*	2.a.7	
■		■	2.b.1	المهارات الأساسية
■	■	■	2.b.2	
■		■	2.b.3	
■		■	2.c.1	المهارات المهنية
■		■	2.c.2	
■		■	2.c.3	
■		■	2.c.4	
		*	2.d.1	المهارات الخاصة
		■	2.d.2	

Practical class	Structured Oral Exam	Written exam	نوع الامتحان
*	*	*	2.a.1
	*	*	2.a.2
	*	*	2.a.3
	*	*	2.a.4
	*	*	2.a.5
			2.a.6
			2.a.7
*	*	*	2.b.1
	*	*	2.b.2
*	*	*	2.b.3
			2.c.1
*			2.c.2
*			2.c.3
*			2.d.1
	*		2.d.2



Written exam : 125 marks - practical : 75 marks.	Oral exam: 50 marks	جداول الامتحانات:
- Post graduate Lecture notes prepared by the staff members in the department.		المخطوطات للكتب والمحاضرات أستاذات:
1. Davidson test Book of Medicine By Nicki R. Colledge, BSc, FRCP(Ed), Brian R. Walker, BSc, MD, FRCP(Ed) and Stuart H. Ralston, MD, FRCP, FMedSci, FRSE(2010).		كتاب مرجع:
2. Houston Book for case taking.		
- 1 Hunter's Tropical Medicine.		كتاب مرجع:
2 Current diagnosis & Treatment in Gastroenterology .		
3 Sheila Sherlock (Text Book) of Hepatology.		
http://www.ncbi.nlm.nih.gov http://www.google.com http://www.medicaljournal.com		مصادر طبية إلكترونية

استاذ الشفاء ا.د. يحيى مصطفى
القسم الطبي:
الكلية الطبية:

Parasitology



Benha University
Faculty of Medicine
Histology Department

Course Specification of Histology in MD Degree in Medical Parasitology

1- بيانات المقرر	
اسم المقرر	اسم المقرر
Medical Histology	Parasitology
عدد الوحدات الدراسية	التخصص
3.5 ساعة معتمدة	المقرر والمعاملات
نظري 3 ساعة معتمدة	الشعبة
By the end of this course the graduate should be able to have the	2- أهداف المقرر
Professional knowledge about:	
1.The Structure of different types of the normal human tissues and cells.	
2.The basic concepts in Molecular biology and medical genetics	
3.The practical skills of handling, staining and examining different types of specimens for the benefit of the main field of specialty: Medical Parasitology.	
By the end of the course, the student should be able to:	3- المتطلبات من تاريخ المقرر
By the end of the program, the graduate is expected to:	4- المهارات والمعارف
a1- describe different types and structure of normal human cells and tissues.	
a2- discuss the knowledge of arrangements of cells.	
a3- explain the basis of medical genetics.	
a4- explain the basis of molecular biology.	
a5- Correlate the structure with the function of different cells in tissues.	5- المساهمات المعينة



and organs		
b2-differentiate between normal structure of any given histological slide.		
c.1- Obtain information from histological slides.		ج-المهارات المعينة
c.2- Identify the structural components of cells at the light and electron microscopic levels.		المعينة بالمعز
c.3- Identify and draw tissues and organs by examining stained sections with the light microscope and by examining electron- micrographs.		
c.4- Properly handle a specimen and prepare a stained slide from it		
c5- Perform further in depth study in human histology.		
c.6- Apply the histology and specific techniques in his/her field of study.		
d.1 work in a team		د-المهارات العامة
d2 use information technology		
d3 communicate effectively		
Topic	Lectures(30)	Practical(15)
The cell	1	
Epithelium	1	1
Connective tissue	1	1
Muscular tissue	1	1
Nervous tissue	2	1
Vascular system	2	1
Lymphatic system	2	1
Skin	1	1
Respiratory system	2	1
Gut	2	1
Urinary system	1	1
Male reproductive system	1	
Female reproductive system	1	
Endocrine system	1	1
Molecular biology and its significance in histology	4	1
Principles of medical genetics	4	1



Microtechnique		3	3	
Sintering				
-Lectures				أساليب التعليم والتعلم
- Practical sessions, supported by academic staff				
-On line lectures : BU-LMS baghdad university learning management system				
2. طرق التدريس				
Seminars	Tutorial	Modified Lectures	نواتج التعلم المتطور	
■		■	2.a.1	المعرفة والفهم
■		■	2.a.2	
■		■	2.a.3	
■	■	■	2.a.4	المهارات اللاحقة
■	■	■	2.b.1	
■		■	2.b.2	المهارات المعقدة
■		■	2.c.1	
■		■	2.c.2	المهارات المعقدة
■		■	2.c.3	
■		■	2.c.4	المهارات المعقدة
		■	2.c.5	
		■	2.c.6	المهارات المعقدة
		■	2.d.1	
		■	2.d.2	المهارات المعقدة
		■	2.d.3	
2. طرق التقييم				
- Written exams				
- Oral exams				
- Practical exams				
Practical exam	Structured Oral Exam	Written exam	نواتج التعلم المتطور	
■	■	■	2.a.1	المعرفة والفهم
■	■	■	2.a.2	



			2.a.3		
			2.a.4		
			2.b.1	المبررات	
			2.b.2	المبررات	
			2.c.1		
			2.c.2		
			2.c.3		
			2.c.4	المبررات	
			2.c.5		
			2.c.6		
			2.d.1		
			2.d.2	المبررات	
			2.d.3	المبررات	
Final exam in May or November					
Written exam: 125 marks Oral exam: 50 marks					
practical: 75 marks.					
المحاضرة الكتاب والمراجع					
- Course Notes: Lecture notes prepared by the staff member in the department.					
- Laboratory manual authorized by the department					
Histology and cell biology by Almkjaer L, 2018					
- Functional Histology by Jeffrey B, 2016					
- Human Histology by Alan Stevens, 2005					
www.yousang.com					
www.pubmed.com					

المادة: الفيزيولوجيا - وفين: مبحث الفيزيولوجيا - أ.د.



Besha University
Faculty of Medicine
Medical Parasitology Department

Course Specification of Medical Parasitology in MD Degree in Medical Parasitology

1. بيانات المقرر	
اسم المقرر	الرمز الكودي
Medical Parasitology	Para799
2. أهداف المقرر	
By the end of the course, the graduate should be able to have the perfect creative knowledge of the parasites affecting human beings all over the world and, so to be able to efficiently diagnose and teach medical parasitology to undergraduates and ready to develop further level by self-learning to add knowledge to the specialty	

(أ. المصطفى بن إدريس العليوي)



By the end of the course, the student should be able to:	
2.a.1. identify sufficient knowledge of the parasites affecting human beings all over the world and zoonosis.	المعالمات والمظاهر
2.a.2. discuss the geographical distribution and life cycle of parasites and vectors, inside and outside the body.	
2.a.3. describe the pathology, clinical symptoms and complications of each parasite	
2.a.5. identify the recommended laboratory tests needed for diagnosis of each case.	
2.a.6. discuss the drugs and instructions used for treating each case.	
2.a.7. identify control methods used against parasites and vectors.	
2.a.8. describe snails and their medical importance, especially of Egypt.	
2.a.9. identify advanced immunology and molecular biology of parasitic infections.	
2.b.1. Interpret parasitological, immunological and molecular reports.	تفسير التقارير المعملية
2.b.2. 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 organisms	
2.b.3. Evaluate according to evidence, the causal relationship of parasite and diseases.	
2.b.4. Solve different parasitological problems (identification, diagnosis, treatment) in absence of adequate data.	



2.b.5. Join different knowledge to help in solving difficult problems.			
2.b.6. Differentiate between parasites or vectors on morphological bases.			
2.c.1. Identify the infective and the diagnostic stages of the parasites.	ج-المهارات العملية: المعالجة بالصور		
2.c.2. Identify different stages of the parasites and vectors of diseases.			
2.c.3. Identify some of the visually important intermediate host especially those present in Egypt.			
2.c.4. Perform some laboratory tests available in the department lab.			
2.c.5. Perform available immunological tests.			
2.c.6. Deal with lab animals: infecting, sacrifice, dissecting and examining.	د-المصادر العلمية:		
2.d.1. Use the computer to enter parasitological web sites.			
2.d.2. Collect scientific data from the computer.			
2.d.3. Work in groups, as a leader or as a colleague.			
2.d.4. Collect data from medical centers and patients.			
2.d.5. Compile a certain article about a specific subject.			
Course Title:	No. of Teaching hours per week		المستوى الدراسي
	Theoretical	Practical	
		Total	Week



1- Advanced Hematology	2	3	3
2- Advanced Pathology	2	3	3
3- Advanced Immunology	1	1.5	2.5
4-Advanced Immunology and Molecular Biology of Parasitic Infections	1	-	1
5-Advanced Diagnostic techniques for parasitic infections & prevention methods	1	1.5	2.5
Total	6	9	16

-, Lectures,
- Practical lessons
- Assignments
-Attending and participating in scientific conferences, workshops and thesis discussions to acquire the general and transferable skills needed.
On line lectures : BU-LMS beniha university learning management system

في الساعات العلمية
والتدريب

طرق التدريس			نواتج التعلم	
Seminars	Tutorial	Modified Lectures	تمارين	المعرفة والمهارات
■		■	2.a.1	المعرفة والمهارات
■		■	2.a.2	
■		■	2.a.3	
■	■	■	2.a.4	
■		■	2.a.5	
■		■	2.a.6	المهارات الذهنية
		■	2.a.7	
		■	2.a.8	
		■	2.a.9	
■		■	2.b.1	
■	■	■	2.b.2	المهارات الذهنية
			2.b.3	
			2.b.4	
			2.b.5	



			2.a.9	المهارات المنهجية
■		■	2.c.1	
		■	2.c.2	
		■	2.c.3	
		■	2.c.4	
		■	2.c.5	
		■	2.c.6	المهارات العامة
		■	2.d.1	
		■	2.d.2	
		■	2.d.3	
		■	2.d.4	
		■	2.d.5	

3. نوع

والأساليب التعليمية
والتقنيات التي تم استخدامها
المستخدمة
7- تقويم الطالب:
الأساليب المستخدمة:

- Written exam
- Practical exam
- Oral exam

نوع التقييم			نوع التقييم	نوع التقييم
Practical exam	Structured Oral Exam	Written exam	نوع التقييم	نوع التقييم
■	■	■	2.a.1	المهارات المنهجية
	■	■	2.a.2	
	■	■	2.a.3	
	■	■	2.a.4	
	■	■	2.a.5	
	■	■	2.a.6	
	■	■	2.a.7	
	■	■	2.a.8	
	■	■	2.a.9	
■	■	■	2.b.1	المهارات العامة
■	■	■	2.b.2	
■	■	■	2.b.3	



	■	■	2.b.4		
	■	■	2.b.5		
	■	■	2.b.6		
■	■		2.c.1		
■	■		2.c.2		
■	■		2.c.3		
■	■		2.c.4		
■	■		2.c.5		
■	■		2.c.6		
■	■		2.d.1		
■	■		2.d.2		
■	■		2.d.3		
■	■		2.d.4		
■	■		2.d.5		
Final exams in May or November Written exam: 1000marks Oral exam: 800marks practical exam: 500marks					دراسات ميدانية مراجعات الفروض المناهج الدراسية والامتحانات
Postgraduate Lecture notes prepared by the staff member in the department. Textbook of Medical Parasitology by Japali (2018). Textbook of Medical Parasitology by McManus, 2016 Manson's Tropical Diseases, Cook GE 1eds, 21st edition, London: WB Saunders, 2003. Introduction to infectious and parasitic diseases, by Millard Langfield, 2018. Immunity to Parasites. How Parasitic Infections are Controlled 2nd Edition Derek Wakelin University of Nottingham, 1995. A colored Atlas of tropical Medicine and Parasitology.					ملاحظات محاضرة

