



Medical Parasitology Department Octorate Degree Program Specification



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Benha University
Faculty of Medicine
Parasitology Department

Program Specification MD Medical Parasitology (2013 -2014)

A) Basic information

أ) معلومات أساسية

1- Program title: MD degree of Medical Parasitology.

2- Nature of the program: Single

- **3- Departments offering the program:** Medical Parasitology Department.
- 4-The date of adoption in the department council: 2 / 9 / 2013
- 5- The date of adoption in faculty council 356: 15/9/2013
- **6- Coordinator:** Prof. Dr. Amany El-Fakahany.
- **7- Internal evaluation of the program:** Dr Hassan Ahmed Hamadto.-Prof. of parasitology, Benha University
- **8- External evaluation of the program:** Dr. Nashaat Abd El-Monem Nasef –Prof. of parasitology, Menofia University.

B) Professional information

ب) <u>معلومات متخصص</u>ة

1-Overall aims of the program:

١ -الأهداف العامة للبرنامج

The overall goals of the program are to:

- Provide the postgraduate with the detailed and advanced knowledge and skills of medical parasitology and research methodologies in the field of parasitology.
- Enable the postgraduate graduate to apply the analytical methods and critic the knowledge in the field of medical parasitology and related fields.

- Integrate specialized knowledge with relevant knowledge and develop bilateral relations.
- Show deep awareness of current problems and theories in the marginal area of medical parasitology
- Identify problems professionally and find innovative solutions to solve them.
- Be oriented towards the development of methods and new tools and techniques for professional practice.
- Use of appropriate technological means to serve the professional practice.
- Communicate effectively and lead the team in various professional contexts.
- Employ available resources efficiently, develop and work to find new resources.
- Have ongoing commitment to self-development and the transfer of knowledge and experience to others.

2. Intended Learning Outcomes (ILOs)

٢ ـ 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 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. 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.
- **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. Analyze**, 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:

- **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

٣- المعايير الاكاديمية

Academic standards for MD parasitology program in Benha Faculty of Medicine المعايير الأكاديمية لبرنامج الدكتوراه في الطفيليات بكلية طب بنها (ملحق ١).

(اعتمد من مجلس قسم الطفيليات بتاريخ ٢٠١٣/٦ ، اعتماد مجلس الكلية ٣٥٤ بتاريخ١٦ / ٢٠١٣/٦)

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.

5. Program structure and contents:

٥. هيكل ومكونات البرنامج:

- a. Program duration: 7 semesters.
 - 1st part: one semester
 - 2nd part: three semesters.
 - Thesis: 4 semesters (starts after success in the first part).

b. Program structure:

- Total hours of the program: 66 credit hours
- Theoretical: 25 credit hours.
- Practical: 11 credit hours.
- Log book: 15 credit hours.
- Thesis: 15 credits hours.

c. Program levels and courses:

ج- مستويات ومقررات البرنامج

	Course title	Code	Total credits
First part	- Microbiology	PARA 701	3 hours
•	- Pathology	PARA 702	3 hours
	- Clinical pathology	PARA 703	3 hours
	- Biochemistry	PARA 704	3 hours
	- Genetics	PARA 705	3 hours
	- Community Medicine	PARA 706	3 hours
	- Tropical medicine	PARA 707	3 hours
	Histology	PARA 708	3 hours
Log book	Includes activities as: Participation and attendance of seminars, conferences and training courses. -Preparation of permanent prepared parasites specimensetc.		15 hours
Second part:	- Advanced helminthology	PARA709	9 hours
	- Advanced protozoology	PARA710	9 hours
	- Advanced entomology.	PARA711	4.5 hours
	- Advanced immunology and molecular biology of parasitic diseases.	PARA712	3 hours
	- Advanced diagnostic techniques for parasitic infections and prevention methods.	PARA713	4.5 hours
Thesis			15 hours
Total			66 hours

First part (one semester):

a- Elective courses: (choose 2 courses)

		NO. of Teac	Total teaching		
Course Title	Course Code	Theoretical	Practical	Total/	hours /semesters
				Week	
1-Microbiology	PARA 701	2	3	3	75
2- Pathology	PARA 702	2	3	3	75
3- Clinical pathology	PARA 703	2	3	3	75
4-Biochemistry	PARA 704	2	3	3	75
5-Genetics	PARA 705	3	-	3	45
6-Community medicine	PARA 706	3	-	3	45
7- Tropical medicine	PARA 707	2	3	3	75
8-Histology	PARA 708	2	3	3	75

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

Second part (3 semesters):

a- Compulsory course:

Course Title	Course Code	NO. of Teac	Total teaching		
		Theoretical	Practical	Total/	hours /
				Week	3 semesters
1- Advanced Helminthology	PARA 709	2	3	5	225
2- Advanced Protozology	PARA710	2	3	5	225
3- Advanced Entomology	PARA 711	1	1.5	2.5	112.5
4-Advanced Immunology and					
Molecular Biology of Parasitic	PARA712	1	-	1	45
infections					
5- Advanced Diagnostic					
techniques for parasitic infections	PARA713	1	1.5	2.5	112.5
& prevention methods					
Total:		7	9	16	720

b- Elective courses: none c- Selective cources: none

6. Courses contents

٦. محتويات المقررات (راجع توصيف المقررات ملحق ٦)

7. Program admission requirements:

٧- متطلبات الالتحاق بالبرنامج

- يشترط لقيد الطالب لدرجة الدكتوراه في العلوم الطبية الأساسية تخصص الطفيليات أن يكون حاصلا على درجة الماجستير في الطفيليات بتقدير جيد على الأقل من إحدى جامعات ج. م. ع أو على درجة معادلة لها وذلك حسب القواعد المنظمة.

8. Progression in the program:

٨. القواعد المنظمه لاستكمال البرنامج

يشترط في الطالب لنيل درجة الدكتوراه في الطب أو الجراحة أو العلوم الطبية الأساسية ما يلي:

- حضور المقررات الدراسية بصفة مرضية طبقا للساعات المعتمدة.
- أن يقوم ببحث في موضوع تقره الجامعة بعد موافقة مجلس الكلية والقسم لمدة ٤ فصول دراسية على الأقل.
 - أن يتقدم بنتائج البحث في رسالة تقبلها لجنة الحكم بعد مناقشة علنية للرسالة.
- اجتياز الطالب ثلاث دورات في الحاسب الآلي (دورة في مقدمة الحاسب الألي دورة تدريبية " متوسطة " دورة في تطبيقات الحاسب الألي) وذلك قبل مناقشة الرسالة.
 - اجتياز الطالب اختبار التويفل بمستوى لا يقل عن ٥٠٠ وحدة وذلك قبل مناقشة الرسالة.
 - أن يجتاز بنجاح الاختبارات التحريرية والإكلينيكية والشفهية المقررة وفقا لما هو مبين باللائحة.
 - على الطالب أن يقيد اسمه للامتحان قبل موعده بشهر على الأقل.
- يشترط لنجاح الطالب في امتحان الدكتوراه الحصول على الحد الأدنى للنجاح في جميع الاختبارات المقررة وفي كل جزء من أجزاءها على حدة وذلك بأخذ المتوسط لتقديرات أعضاء اللجنة وإذا رسب الطالب في أي مقرر من المقررات يعيد الامتحان في جميع المقررات.

9. graduate s 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 & General &	Oral examination	2
transferable skills		
2.a.12.a.14& 2.b.12.b.12& 2.d.12.d.7		
To assess knowledge, understanding, intellectual skills, practical &	Practical	3

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, practical &	Thesis	4
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, practical &	Logbook	5
General & transferable skills		
2.a.12.a.14& 2.b.12.b.12& 2.c.12.c.7& 2.d.12.d.7		

First part

ti . i		<u>ج</u> ة	الدر		الاختبار	المقرر
إجمالي	إكلينيكي	عملي	شفهي	تحريري	المحتبار	المعرر
70.		۸.	٥,	١٢.	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي وعملي	ميكروبيولوجيا
۲٥.		٨٠	٥,	17.	وعمي اختبار تحريري مدته ثلاث ساعات + اختبار شفهي وعملي	باثولو <i>جي</i>
10.			٥,	١	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	باثولوجيا إكلينيكية
۲.,			٦,	1 2 .	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	كيمياء حيوية
10.			٥,	١	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	وراثة
10.			٥.	١	اختبار تحريري مدته ثلاث ساعات + اختبار شفهي	طب مجتمع
۲.,	٥,		٥,	١	اختبار تحريري مدته ثلاث ساعات+ اختبار شفهي وإكلينيكي	طب المناطق الحارة
10.		70	70	١	اختبار تحريري مدته ثلاث ساعات اختبار شفهي وعملي	علم الأنسجة

Second part

Decom				<u> </u>
إجمالي	رجة.	تبار والد	اسم الاخ	المقرر
الدرجة	عملي	شفوي	تحريري	
٣.,	٧٥	Y0	10.	1- Advanced Helminthology
+	+	+	+	2. Advanced Protozology
٣.,	Yo Yo 10.		10.	3. Advanced Entomology
+	+	+	+	
۲.,	٥,	٥,	١	
۲.,	-	1	١	4. Advanced Immunology and Molecular Biology
+	+	+	+	of Parasitic infections
۲.,	٥,	٥,	١	5. Advanced Diagnostic techniques for parasitic
				infections & prevention methods
17	70.	40.	٦.,	

كتاب الأنشطة (Log book):

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

10 -Evaluation of the program

١٠. طرق تقويم البرنامج:

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	
	NQAA .	
Senior graduate (s)	Questionnaire meeting	جميع الطلبه
طلاب السنة النهائية		
Alumni	Questionnaire meeting	عينه تمثل ٥٠% من آخر
الخريجون		ثلاث دفعات
Stakeholder (s)	Questionnaire meeting	عينه ممثله لجميع جهات
أصحاب العمل		العمل
Others	None	
طرق أخرى		

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.Amany El-Fakahany

Signature & date:

الملاحق

ملحق ١:

المعايير الأكاديمية لبرنامج الدكتوراه في الطفيليات بكلية طب بنها

Academic standards for MD parasitology program in Benha Faculty of Medicine

ملحق ٢:

المعايير القياسية العامة لبرامج الدكتوراه الصادرة عن الهيئة القومية لضمان الجودة والاعتماد

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 الدكتوراه الصادرة عن الهيئة القومية لضمان الجودة والاعتماد مع المعايير الأكاديمية لبرنامج دكتوراه الطفيليات لكلية طب بنها

ملحق ٥: مصفوفة مضاهاة مواصفات الخريج والمعايير الأكاديمية لبرنامج دكتوراه الطفيليات لكلية

طب بنها مع الأهداف العامة ونواتج التعلم المستهدفة للبرنامج

Program-Courses ILOs Matrix: ملحق

ملحق٧: توصيف المقررات

ملحق ١

Academic standards for MD parasitology program in Benha Faculty of Medicine

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. 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. Describe 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. Outline basics of environmental parasitology.
- 2.6. 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 deterimental 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 antiparasitic chemotherapy, side effects, chemoprophylaxis and resistance.
- 2.9. Define antiparasitic vaccines.
- 2.10. Discuss 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. Explain proper design, conduction & publishing of scientific research in parasitology.
- 2.14. Outline 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.
- 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 different situations 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 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. Add to the specialty field through creativity & innovation.

- 3.12. Make appropriate decisions, in different situations.
- 3.13. Publish scientific articles/ papers (in indexed journals).

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. Judge results of parasitological, serological and molecular tests and apply it.
- 4.5. Assess and improve methods and tools used in specialty.
- 4.6. Recommend up to date technology to advance practice in the field of parasitology.
- 4.7. Recommend plan for development of professional skills and enhance juniors' skills.
- 4.8. Prepare professional assessment reports.

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. Educate 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. Manage different scientific meetings and appropriately utilize time.

ملحق ۲

Academic standards 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

١- مواصفات الخريج:

خريج برنامج الدكتوراه في أي تخصص يجب ان يكون قادرا على

- ١-١ اتقان اساسيات ومنهجيات البحث العلمي
- ٢-١ العمل المستمر على الاضافة للمعارف في مجال التخصص
- ١-٣ تطبيق المنهج التحليلي والناقد للمعارف في مجال التخصص والمجالات ذات العلاقة
- ١-٤ دمج المعارف المتخصصة مع المعارف ذات العلاقة مستنبطا ومطورا للعلاقات البينية بينها
 - ١-٥ اظهار وعيا عميقا بالمشاكل الجاربة والنظربات الحدية في مجال التخصص
 - ١-١ تحديد المشكلات المهنية وايجاد حلولا مبتكرة لحلها
 - ٧-١ اتقان نطاقا واسعا من المهارات المهنية في مجال التخصص
 - ١-٨ التوجه نحو تطوير طرق وادوات واساليب جديدة للمزاولة المهنية
 - ٩-١ استخدام الوسائل التكنولوجية المناسبة بما يخدم ممارستة المهنية
 - ١٠-١ التواصل بفاعلية وقيادة فريق عمل في سياقات مهنية مختلفة
 - ١١-١ اتخاذ القرار في ضل المعلومات المتاحة
 - ١٢-١ توظيف الموارد المتاحة بكفاءة وتنميتها والعمل على ايجاد موارد جديدة
 - ١٣-١ الوعي بدوره في تنمية المجتمع والحفاظ على البيئة
 - ١٤-١ التصرف بما يعكس الالتزام بالنزاهة والمصداقية وقواعد المهنة
 - ١-٥١ الالتزام بالتنمية الذاتية المستمرة ونقل علمه وخبراته للاخرين
 - ٢- المعايير القياسية
 - ١-٢ المعرفة والفهم
 - بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخريج قادرا على الفهم والدراية بكل من
 - ٢-١-١ النظريات والاساسيات والحديث من المعارف في مجال التخصص والمجالات ذات العلاقة
 - ٢-١-٢ اساسيات ومنهجيات واخلاقيات البحث العلمي وأدواته المختلفة
 - ٢-١-٢ المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص
 - ٢-١-٤ مبادئ واساسيات الجودة في الممارسة في مجال التخصص
 - ٢-١-٥ المعارف المتعلقة بأثار ممارسته المهنية على البيئة وطرق تنمية البيئة وصيانتها

- ٢-٢ المهارات الذهنية
- بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخريج قادرا على
- ٢-٢-١ تحليل وتقييم المعلومات في مجال التخصص والقياس عليها والاستنباط منها
 - ٢-٢-٢ حل المشاكل المتخصصة استنادا على المعطيات المتاحة.
 - ٢-٢-٢ اجراء دراسات بحثية تضيف إلى المعارف.
 - ٢-٢-٤ صياغة أوراق علمية.
 - ٢-٢-٥ تقييم المخاطر في الممارسات المهنية.
 - ٢-٢-٦ التخطيط لتطوير الأداء في مجال التخصص.
 - ٢-٢-٢ اتخاذ القرارات المهنية في سياقات مهنية مختلفة.
 - ۲-۲-۸ الابتكار والابداع.
 - ٢-٢-٩ الحوار والنقاش المبني على براهين.
 - ٣-٢ المهارات المهنية
 - بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخربج قادرا على
 - ١-٣-٢ اتقان المهارات الأساسية والحديثة في مجال التخصص
 - ٢-٣-٢ كتابة وتقييم التقارير المهنية
 - ٣-٣-٣ تقييم وتطوير الطرق والأدوات المستخدمة في مجال التخصص
 - ٢-٣-٢ استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية
 - ٢-٣-٥ التخطيط لتطوير الممارسة المهنية وتنمية أداء الأخرين
 - ٢-٤ المهارات العامة والمنتقلة
 - ٢-٤-٢ التواصل الفعال بأنواعه المختلفة
 - ٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسات المهنية
 - ٣-٤-٢ تعليم الأخرين وتقييم أدائهم
 - ٢-٤-٤ التقييم الذاتي والتعليم المستمر
 - ٢-٤-٥ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
 - ٢-٤-٢ العمل في فربق وقيادة فرق العمل
 - ٢-٤-٢ إدارة اللقاءات العلمية والقدرة على إدارة الوقت

ملحق رقم ٤ مصفوفة مضاهاة المعايير الأكاديمية لبرنامج الدكتوراه الصادرة عن الهيئة القومية لضمان الجودة والاعتماد مع المعايير الأكاديمية لبرنامج دكتوراه الطفيليات لكلية طب بنها

	، لكلية طب بنها	توراه الطفيليات	يمية لبرنامج دك	المعايير الأكاد	رة عن الهيئة	المعايير الصاد
۲٫۶. المهارات العامة والمنقولة	، لكلية طب بنها ٢٫٣ . المهار ات المهنية	۲,۲ المهارات الذهنية	يمية لبرنامج دك ١,٢٠ المعارف والفهم	١. مواصفات الخريج) الجودة	المعايير الصاد القومية لضمار والاعتماد
					7-1 Y-1 2-1 0-1 Y-1 A-1 1 Y-1 1 Y-1 1 Y-1 1 Y-1	۱-مواصفات الخريج
			11.7		1-1-7 7-1-7 7-1-7 2-1-7	۲-۲ المعارف والفهم
		7-0 P 7-0 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P 1 P			1-7-7 7-7-7 7-7-7 2-7-7 0-7-7 7-7-7 V-7-7 9-7-7	۲-۲ المهارات الذهنية
	£-\ £				1-7-7 7-7-7	٣-٢ المهارات المهنية
1 .0 Y .0 % .0 6 .0 7 .0 Y .0					T-T-Y 2-T-Y 0-T-Y 1-2-T Y-2-T Y-2-T 2-2-T 0-2-T Y-2-T	٢-٤ المهارات العامة والمنقولة

ملحق ٥: مصفوفة مضاهاة مواصفات الخريج والمعايير الأكاديمية لبرنامج دكتوراه الطفيليات لكلية طب بنها مع الأهداف العامة ونواتج التعلم المستهدفة للبرنامج

		-	h. h	1. 1 11	a . af	
		بتهدفة	نواتج التعلم المس	اهداف البرنامج	ج والمعايير الأكاديمية	مواصفات الخري
2.d.	2.c.	2.b.	2.a.		الطفيليات لكلية طب	لبرنامج دكتوراه
المهارات	المهارات	المهارات	المعارف			بنها
العامة	المهنية	الذهنية	والفهم			
والمنقولة		-	,,,,			
-55			2.a.1-10	Provide the postgraduate with	1.1.	١. مواصفات
			2.a.1-10	the detailed and advanced	1.1.	الخريج
	2.c.1-7		2.a.13	knowledge and skills of	1.2.	الكريج
				medical parasitology and		
		2.b.9.	2.a.11	research methodologies in the	1.14.	
		2.b.10.		field of parasitology.		
			2.a.14	note of parasitology.	1.15.	
		2.b.1	2.4.1	Enable the postgraduate	1.4.	
		2.b.1 2.b.2		graduate to apply the	1.4.	
		2.0.2		analytical methods and critic		
				the knowledge in the field of		
				medical parasitology and		
				related fields.		
		2.b.6	2.a.6	Integrate specialized	1.5.	
		2.0.0	2.4.0	knowledge with relevant	1.5.	
				knowledge and develop		
				bilateral relations.		
		2.b.5		Show deep awareness of	1.6.	
		2.b.10		current problems and theories	1.0.	
		2.0.10		in the marginal area of		
				medical parasitology		
		2 5 1 2	2.a.7	Identify problems	1.7.	
		2.b.1-2,		professionally and find	1./.	
		2.b.4.,	2.a.12	innovative solutions to solve		
		2.b.6		them.		
		2.b.3		them.	1.8.	
		2.b.5.				
		2.b.11				
		2.b.12				
	2.c.5	2.b.7		Be oriented towards the	1.9.	
	2.c.6	2.b.9		development of methods and		
		2.b.11		new tools and techniques for		
				professional practice.		
2.d.1	2.c.5			Use of appropriate	1.10	
2.d.5	2.c.6			technological means to serve	1.13	
2.4.3	2.0.0			the professional practice.		
2.d.1				Communicate effectively and	1.11	
2.d.6				lead the team in various		
2.d.7				professional contexts.		
		2.b.9		Employ available resources	1.12.	
		,		efficiently, develop and work		
				to find new resources.		
2.d.2	2.c.7	2.b.8		Have ongoing commitment to	1.3.	
2.d.2 2.d.3	,	2.0.0		self-development and the	1.5.	
2.d.3 2.d.4				transfer of knowledge and		
2.d.4 2.d.4	2.c.7	2.b.8		experience to others.	1.13.	
∠.u.4	2.C.1	2.0.8			1.13.	

0.1			نواتج التعلم المس	المعالف البريامي	ة والمعايير الأكاديمية	مو اصنفات الحريج
2.d.	2.c.	2.b.	2.a.		لكلية طب بنها	دكتوراه الطفيليات
المهارات	المهارات	المهارات	المعارف			
العامة	المهنية	الذهنية	والفهم			
والمنقولة						
			۲.a.1		۲. ۱	٢. المعارف
			2.a.2		7.7	والفهم
			2.a.3		٣.٢	
			2.a.4		٤.٢	
			2.a.5		۲. ه	
			2.a.6		۲.۲	
			2.a.7		۲. ۷	
			2.a.8		۲. ۸	
			2.a.9		٩ .٢	
			2.a.10		۲. ۱۰	
			2.a.11		11.7	
			2.a.12		17.71	
			2.a.13		۲. ۱۳	
			2.a.14		1 £ . ٢	
		2.b.1			۲.۳	٣. المهارات
		2.b.2			٣.٣	الذهنية
		2.b.3			٣.٣	
		2.b.4			٤.٣	
		2.b.5			۳. ه	
		2.b.6			٦ .٣	
		2.b.7			٧.٣	
		2.b.8			٨ .٣	
		2.b.9			٩ ٣	
		2.b.10			٣.٠١	
		2.b.11			٣. ١١	
		2.b.12			٣. ١٢	
					٣.٣	
	2.c.1				۱ . ٤	٤. المهارات
	2.c.2				٤. ٢	المهنية
	2.c.3				٤. ٣	
	2.c.4				٤٠٤	
	2.c.5				٤. ٥	
	2.c.6				۲ . ٤	
	2.c.7				٧.٤	
2.d.1					1.0	٥. المهارات
2.d.2					٥. ٢	العامة والمنقولة
2.d.3					٣.٥	
2.d.4					٤.٥	
2.d.5					0.0	
2.d.6					٦٥	
2.6.7					٧.٥	

ملحق6 Program-courses ILOs matrix:

Courses	2a-Knowledge and Understanding													
	2a1	2a2	2a3	2a4	2a5	2a 6	2a 7	2a 8	2a 9	2a 10	2a 11	2a 12	2a 13	2a14
PARA701														
PARA702														
PARA703														
PARA704														
PARA705										V				
PARA706	V				$\sqrt{}$									V
PARA707														
PARA708	V													
PARA709-713	V													

Courses		2.b-Intellectual skills												
	2b1	2b2	2b3	2b4	2b5	2b6	2b7	2b8	2b9	2b10	2b11	2b12	13	14
PARA701										$\sqrt{}$				
PARA702				V										
PARA703														
PARA704														
PARA705														
PARA706														
PARA707														
PARA708				V										
PARA709-713	$\sqrt{}$			V						V	V	V		$\sqrt{}$

Courses	2.c.Professional & Practical skills					2.d. General & transferable skills								
	2c1	2c 2	2c3	2c 4	2c 5	2c 6	2c 7	2d1	2d2	2d3	2d4	2d5	2d6	2d7
PARA701			$\sqrt{}$			$\sqrt{}$			$\sqrt{}$					
PARA702									$\sqrt{}$					
PARA703									$\sqrt{}$					
PARA704														
PARA705									$\sqrt{}$					
PARA706														
PARA707														$\sqrt{}$
PARA708								$\sqrt{}$	$\sqrt{}$					
PARA709-713									$\sqrt{}$	$\sqrt{}$				$\sqrt{}$

وصيف برنامج دكتوراة الطفيليات الطبية	រី
الله هذا النبي المتدار - قر المدار - حرار	, *
المقررات التابعة للبرنامج	بوصيف

Benha University Faculty of Medicine Microbiology & Immunology Department

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

		البيانات المقرر الرمز الكودي:
المستوى:	اسم المقرر:	الرمز الكودي:
دکتور اه جزء اول	Medical Microbiology &Immunology	Para701
	عدد الو حدات الدر اسية:	التخصص:
	- نظري: ٢ ساعه معتمدة	دكتوراه الطفيليات
	 عملي: ١ ساعه معتمدة 	الطبية
By the end of the cours	e the graduate should be efficiently able to:	٢-أهداف المقرر
1-Have the professional	l knowledge of the microorganisms affecting human	
beings all over the work	ld and the relations between them and the parasites.	
2. Recognize the patho	ology, clinical symptoms, complications and the	
perform the laboratory	tests needed for diagnosis of each diseases.	
3. Gain the profession	al knowledge about the structure and function of the	
immune system so as to	perform immunological studies needed in his/her	
main specialty.		
	المقرر:	٣-المستهدف من تدريس
•	e, the student should be able to:	
A1 identify the microon	rganisms affecting human beings allover the world	أ-المعلومات والمفاهيم:
particularly those relate	ed to parasites.	
A2- Describe the metal	polism and genetics of organisms.	
A3- Describe the patho	logy, clinical symptoms and complications of each	
disease.		
A4- Summarize the lab	oratory tests needed for diagnosis of each case.	
A5- Name some of the	drugs and instructions used for treatment of each	
case.		
A6- Describe some infe	ection control methods.	
A7- Describe the struct	ture and function of immune system.	
. b1- Differentiate betw	een the different microorganisms (Bacteria, viruses	ب-المهارات الذهنية:

عالم المهارات العاملة. 2- Differentiate between the different types of bacteria using staining and culturing methods. 3- Differentiate between organisms affecting the same body parts. 1- Idemonstrate micro-organisms on morphological bases. 2- Identify and perform the methods of staining, culturing and biochemical reactions. 3- perform some serological tests used in diagnosis. 4- Handle of samples. 4- Handle of samples. 4- Practice group co-ordination 7- Topic Lecture Practical Course ILO,s 3- 3- 4,4,2,5,1,5,2,5,3,c1,c2,c4 4- bacteriology 4- 4 8- Systemic 4- 3,3,4,3,5,4,6, b1,b2,b3,c1,c2,c4 bacteriology 6- 6- 6 Mycology 3- 3,3,4,3,5,4,6, b1,b2,b3, 4- 4- 4- c1,c2,c4 Immunology 4- 4 Immunology 7- 7 Total 30- 30 1-1-lectures. 2-practical lessons. 3- Practical assignments and sample collection.	1.0 ')				T
culturing methods. b3- Differentiate between organisms affecting the same body parts. c1 demonstrate micro-organisms on morphological bases. c2 Identify and perform the methods of staining, culturing and biochemical reactions. c3 perform some serological tests used in diagnosis. c4 Handle of samples. d1- Use the computer and internet to gather scientific informations. d2- Practice group co-ordination Topic Lecture Practical Course ILO,s General 4 a1,a2,b1 bacteriology 4 Systemic a3,a4,a5,a6,b1,b2,b3,c1,c2,c4 bacteriology 6 6 Mycology 3 3 c1,c2,c4 bacteriology 3 3 c1,c2,c4 bacteriology 6 6 Mycology 3 3 c1,c2,c4 Immunology A7,c3,c4,d1,d2 7 Total 30 30 -1-lectures. 2-practical lessons. 3- Practical assignments and sample collection. Written exam Oral exam Oral exam Practical exam .	and fungi).				
b3- Differentiate between organisms affecting the same body parts. c1 demonstrate micro-organisms on morphological bases. c2 Identify and perform the methods of staining, culturing and biochemical reactions. c3 perform some serological tests used in diagnosis. c4 Handle of samples. d1- Use the computer and internet to gather scientific informations. d2- Practice group co-ordination Topic Lecture Practical Course ILO,s General 4 a1,a2,b1 bacteriology 4 4 Systemic a3,a4,a5,a6,b1,b2,b3,c1,c2,c4 bacteriology 6 6 Mycology 3 3 c1,c2,c4 bacteriology 6 6 Mycology 3 3 c1,c2,c4 Lecture A7,c3,c4,d1,d2 Total 30 30 -1-lectures. 2-practical lessons. 3- Practical assignments and sample collection. Written exam. Oral exam. Practical exam .	b2- Differentiate b				
دالمهارات المهارات المهارة المهارة المهارة المهارة المهارة المهارة المهارات المهارة الم	culturing methods				
reactions. c3 perform some serological tests used in diagnosis. c4 Handle of samples. d1- Use the computer and internet to gather scientific informations. d2- Practice group co-ordination Topic Lecture Practical Course ILO,s General 4 a1,a2,b1 bacteriology 4 systemic a3,a4,a5,b1,b2,b3,c1,c2,c4 bacteriology 6 6 6 Mycology 3 3 c1,c2,c4 bacteriology 4 s3,a4,a5,a6, b1,b2,b3, c1,c2,c4 bacteriology 6 6 6 Nosocomiology 3 3 c1,c2,c4 Immunology 4 c1,c2,c4 Immunology 4 c1,c2,c4 Immunology 7 7 Total 30 30 -1-lectures. 2-practical lessons. 3- Practical assignments and sample collection. Written exam. - Oral exam. - Practical exam .	b3- Differentiate b	etween orga	anisms affection	ng the same body parts.	
reactions. c3 perform some serological tests used in diagnosis. c4 Handle of samples. d1- Use the computer and internet to gather scientific informations. d2- Practice group co-ordination Topic Lecture Practical Course ILO,s General 4 a1,a2,b1 bacteriology 4 systemic a3,a4,a5,b1,b2,b3,c1,c2,c4 bacteriology 6 6 6 Mycology 3 3 c1,c2,c4 bacteriology 4 s3,a4,a5,a6, b1,b2,b3, c1,c2,c4 bacteriology 6 6 6 Nosocomiology 3 3 c1,c2,c4 Immunology 4 c1,c2,c4 Immunology 4 c1,c2,c4 Immunology 7 7 Total 30 30 -1-lectures. 2-practical lessons. 3- Practical assignments and sample collection. Written exam. - Oral exam. - Practical exam .	c1 demonstrate mi	cro-organisi	ms on morpho	logical bases.	ج-المهارات المهنية
c3 perform some serological tests used in diagnosis. c4 Handle of samples. d1- Use the computer and internet to gather scientific informations. d2- Practice group co-ordination Topic Lecture Practical Course ILO,s	c2 Identify and per	rform the me	ethods of stain	ing, culturing and biochemical	الحاصة بالمقرر:
C4 Handle of samples Ad- Use the computer and internet to gather scientific informations. Ad- Use the computer and internet to gather scientific informations. Ad- Use the computer and internet to gather scientific informations. Ad- Use ILO,s	reactions.				
dl- Use the computer and internet to gather scientific informations. d2- Practice group co-ordination Topic Lecture Practical Course ILO,s - Acade Systemic al, a,	c3 perform some s	serological to	ests used in di	agnosis.	
### d2- Practice group co-ordination Topic Lecture Practical Course ILO,s Course ILO,s	c4 Handle of samp	oles.			
Topic Lecture Practical Course ILO,s : محتوى المقرر: General 4	d1- Use the compt	uter and inte	rnet to gather	scientific informations.	د-المهارات العامة:
General bacteriology 4 Systemic a3,a4,a5,b1,b2,b3,c1,c2,c4 bacteriology 6 Mycology a3,a4,a5,a6, b1,b2,b3, 3 3 Virology a3,a4,a5,a6, b1,b2,b3 Nosocomiology a3,a4,a5,a6, b1,b2,b3, 4 4 4 4 4 7 7 7 Total 30 30 30 -1-lectures. 2-practical lessons. 3- Practical assignments and sample collection. - Written exam. - Written exam. - Oral exam. - Practical exam. - Practical exam . - Practical exam .	d2- Practice group	co-ordinati	on		
bacteriology 4 Systemic	Topic	Lecture	Practical	Course ILO,s	٤-محتوى المقرر:
bacteriology 4 Systemic	Conoral	1		a1 a2 h1	
الم الله التعليم التعليم التعليم التعليم المستخدمة: - Written exam Oral exam Practical exam .		7	4	a1,a2,v1	
المحدودة: والتعلي التعليب المستخدمة: - Written exam Oral exam Practical exam .	•			a3,a4,a5,b1,b2,b3,c1,c2,c4	
Nosocomiology		6	6	22 24 25 26 h1 h2 h2	
Virology a3,a4,a5,a6, b1,b2,b3 Nosocomiology a3,a4,a5,a6, b1,b2,b3, c1,c2,c4 Immunology A7,c3,c4,d1,d2 7 7 Total 30 30 30 2-practical lessons. 2-practical assignments and sample collection. 3- Practical assignments and sample collection. Y 1 - Written exam. - Written exam. - Oral exam. - Practical exam .	Mycology	3	3		
Nosocomiology	Virology		· ·		
السسيان التعليم المستخدمة: - Written exam Practical exam.		6	6		
Immunology A7,c3,c4,d1,d2 Total 30 30 - Inductions 2-practical lessons. 3- Practical assignments and sample collection. Y يوجد - Written exam. - Written exam. - Oral exam. - Practical exam .	Nosocomiology	4	4		
Total 7 7 Total 30 30 2-practical lessons. 3- Practical assignments and sample collection. Y يوجد التعليم الموردة: - Written exam. - Written exam. - Oral exam. - Practical exam .	Immunology	4	4	, , ,	
-1-lectures. 2-practical lessons. 3- Practical assignments and sample collection.	immunology	7	7	A7,05,04,01,02	
2-practical lessons. 3- Practical assignments and sample collection.	Total	30	30		
2-practical lessons. 3- Practical assignments and sample collection. اله الله الله الله الله الله الله الله	-1-lectures.				
۲-أساليب التعليم لا يوجد والتعلم لذوي القدرات المحدودة: ٧-تقويم الطلاب: - Written exam. أ-الأساليب المستخدمة: - Oral exam. - Practical exam . - Practical exam .	2- practical lessons	S.			واللغلم:
و التعلم لذوي القدرات المحدودة: - Written exam Oral exam Practical exam .	3 - Practical assign	ments and s	ample collecti	on.	
- Oral exam Practical exam .			لا يوجد		٦-أساليب التعليم
- Oral exam Practical exam .					و التعلم لذوي القدر ات المحده دة:
- Oral exam Practical exam .		٬ <u>ــــــــــــــــــــــــــــــــــــ</u>			
- Practical exam .	- Written ex	am.			أ-الأساليب المستخدمة
ب الآرة ورت:	- Oral exam.				
ب-التوقيت: Final exam in May or November	- Practical ex	xam .			
	Final exam in May	y or Novemb	per		ب-التوقيت:

-Written exam.: 120 marks -practical:80 marks - Oral exam: 50 marks	ج-توزيع الدرجات:
	٨-قائمة الكتب والمراجع: أ-مذكرات:
- Course Notes: Post graduate Lecture notes prepared by the staff member	أ-مذكرات:
in the department	
. Medical Microbiology and Immunology by Ken S., 2009.	ب-كتب ملزمة:
- Problem based Microbiology by Swapan K., 2006.	ج-كتب مقترحة:
- A colored Atlas of Microbiology .	
http://mic.sgmjournals.org/	د-دوريات علمية أو نشراتالخ
http://www.microbes.info/	نشراتالخ
http://mansvu.mans.edu.eg/moodle/course/category.php?id=64	

أستاذ المادة: رئيس مجلس القسم العلمي:

Benha University Faculty of Medicine Pathology Department

Course Specification of Pathology in MD Degree in Medical Parasitology

	,	١ ـبيانات المقرر						
المستوى: دكتور اه جزيم أول	اسم المقرر : Medical Pathology	<u>۱ -بيانات المقرر</u> الرمز الكودي:						
05/ 77. 1/79	Wedlear Fathology	٬ــر-ي.						
		Para702						
	عدد الوحدات الدراسية:	التخصص:						
	- نظري: ۲ ساعه معتمدة - عملي: ۱ ساعه معتمدة	دكتوراه						
	- عملي: ١ ساعه معتمدة	الطفيليات الطبية						
By the end of this course the g	graduate should be able to gain the professional	۲_أهداف						
knowledge and understanding	g of general pathology and special pathology as	المقرر						
related to the main field of me	edical Parasitology. And can accurately and							
independently interpret the gross and microscopic pathology specimens.								
٣-المستهدف من تدريس المقرر:								
By the end of the course, the student should be able to: al- explain the deviation or change in the normal structure and function of the								
غاهاه								
body on the macro- and micro		,						
a2- describe Cellular injury re	eversible and irreversible, causes, effects e.g.							
degeneration, necrosis and ap	optosis (programmed cell death).							
a3- discuss Inflammation; cau	ises, classification, fate, complications, healing and							
repair.								
a4-identify Infectious diseases	s; 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 deficie	a6- explain Nutritional deficiencies and their effects on the body system							
a7- describe Cellular growth of	a7- describe Cellular growth disturbances e.g. atrophy, hypertrophy, hyperplasia,							
metaplasia, and dysplasia.								

. b1- Interpret the data the	rough reading the	reports reach	ing to the patho	ology	ب-المهارات			
laboratory along with the	biopsies and exci	sed specimen	s, including his	story,	الذهنية:			
clinical examination, radi	ological and labor	ratory investi	gations other th	nan the				
histopathology								
c1- demonstrate the gross	s pathology specin	nens kept in t	he jars and pict	tures taken	ج-المهار ات المهنية الخاصة			
for unavailable gross pathology in the museum, put a diagnosis ordifferential								
diagnosis.					بالمقرر:			
c2- Describe the gross pio	cture of the specin	nens and devi	ation of norma	1				
regarding the size, site, sh	nape, color localiz	ed abnormali	ty					
c3- deal with the specime	ens, fixation, trimn	ning, process	ing, tissue secti	ioning,				
hematoxylin and eosin sta	aining							
c4- Prepare and examining	ng the slides by the	e bright field	microscope and	d				
putting a diagnosis or diff	ferential diagnosis	,						
c5- Use the microscope n	nonitor system in o	discussing the	e slides in grou	ps to reach				
a result								
d1- Use standard comput	er program effecti	vely.			د-المهارات			
d2- Utilize computers in	conduction with o	ther patholog	y departments	via	العامة:			
Teleconferences.								
d3- Use the computers in	searching about r	esent data in	the libraries via	a the				
internet.								
Topic	No. of hours	Lecture	Practic		ر:			
1-General pathology:			Museu	m				
	1	1						
1.1. Introduction	1	1						
1.2. Inflammation,	3	2	1					
1.2. Inflammation, Repair, Cell			1					
1.2. Inflammation, Repair, Cell injury and cell death	3	2	1					
1.2. Inflammation, Repair, Cell injury and cell death 1.3. Circulatory			1					
1.2. Inflammation, Repair, Cell injury and cell death	3	2	2	1				

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		3		2		1	
2.5. Diseases of exocrine pancreas and peritoneum		3			2	1	
2.6. Diseases of the urinary system and male and female genital systems		3		2		1	
2.7. Diseases of the musculoskeletal system and nervous system		3		2		1	
2.8. Blood diseases, the lymph node and spleen			4	3		1	
2.9. Immunohistopathology	4			2		1	
2.10. Specimen preparation and examination	6			3		4	
Total		45		30		15	
1- Lectures							٥-أساليب
.2- Practical sessions							٥-أساليب التعليم والتعلم:
3- Discussions							و استعماد
		بد	لا يوج				٦-أساليب

	التعليم والتعلم
	لذوي القدرات
	المحدودة:
	٧-تقويم الطلاب
- Written exam.	أ-الأساليب المستخدمة:
- Oral exam.	
- Practical exam .	
Final exam in May or November	ب-التوقيت:
-Written exam.: 120 marks - Oral exam: 50 marks	جـتوزيع الدرجات:
-practical :80 marks.	الدرجات.
المراجع:	٨-قائمة الكتب و
- Course Notes: Post graduate Lecture notes prepared by the staff member in the	أ-مذكرات:
department.	
-Department practical & Museum notes.	
Robbins basic pathology, 2007.	ب-کتب
-Principals of general pathology.	ملزمة:
-Principals of special pathology.	
- Pathologic Basis of Disease, Kumar, Cotran, Robbins.	ج-كتب مقترحة:
http://www.humpath.com/Websites-Pathology	د-دوريات
http://peir2.path.uab.edu/reslinks/Pathology_Education_Websites/index.htmlhttp:	علمية أو نشر ات الخ
//library.med.utah.edu/WebPath/webpath.html	ـــر،ـــ

أستاذ المادة: : أ.د. سامية يوسف رئيس مجلس القسم العلمي: : أ.د. عبد اللطيف البلشي

Benha University
Faculty of Medicine
Clinical Pathology Department

Course Specifications of Clinical Pathology for MD Degree in Medical Parasitology

		ا بيانات المقرر الرمز الكودي: Para703						
المستوى:	اسم المقرر:	الرمز الكودي:						
دكتوراه جزء أول	Medical Clinical Pathology	Para703						
	عدد الوحدات الدر اسية:							
	التخصص:							
اه الطفيليات - نظري ٢ ساعه معتمدة								
دكتوراه الطفيليات - نظري: ٢ ساعه معتمدة الطبية - عملي: ١ ساعه معتمدة عملي: ١ ساعه معتمدة - عملي: ١ ساعه معتمدة ٢-أهداف المقرر ٢-أهداف المقرر								
•	f haematology, immunology, clinical chemistry and							
microbiology to suppor	t his /her study of the main specialty.							
		٣-المستهدف من تدريس						
ÿ	e, the student should be able to:	T						
	n about the physiology of blood cells (RBCs,	أ-المعلومات والمفاهيم:						
WBCs and platelets) an								
_	n about the anatomy of the lymphatic and							
hematopoietic organs.								
_	nt causes, presentation and management of various							
• 1	types of anemias.							
	nifestation and management of bleeding and							
coagulation disorders.	ancitic discours in different someles							
	rasitic diseases in different samples.							
	and immunological changes associated with various							
diseases especially para	unces in diagnosing various hematological disorders							
	antation, immunological treatment.							
	estigations as blood picture, bone marrow	ب-المهارات الذهنية:						
<u> </u>	lymph node, spleen biopsy and tests for coagulation	ب-المهارات الدهليد.						
disorders.	rymph hode, spicen biopsy and tests for coagulation							
	en samples of parasitic infection and other samples.							
	e hematological examination.	حـالمهار ات المهنية						
c.2- Perfect different sta	<u>C</u>	ج-المهارات المهنية الخاصة بالمقرر:						
	urinary, sputum and fecal examinations.	.55=== ====						
_	c.4- Perform serological tests for detection of parasitic antibodies or							
antigens	<u> </u>							
c.5 Examine lymph nodes, liver and spleen and to know causes and								
in a manifest of the state of t	, spreen and to mis tables and							

management of lymphadenopath	y, hepatoi	megaly, and	d splenomegaly.	
D1- Work in a team.				د-المهارات العامة:
d2-Communicate well with his colleagues, top managers and subordinates.				
d3- Use computers in conducting			,	
The Control of the Co	5			
				٤ -محتوى المقرر:
Topics	Hours	Practical	Course ILO's	.55 25
Topics	of	110001001		
	lectures			
Clinical haematology:	2	2	a1, a2, a3,a5, b1,	
Chimear nachiatology.			b2, b3, c1	
- Parasites in blood.	2	2	a1, a2, a3,a5, b1,	
- I arasites in blood.			b2, b3, c1	
-Anemias:	2	2	a1, a2, a3,a5, b1,	
-Anemias.			b2, b3, c1	
- ERS.	1	1	02, 03, 01	
	2	2	a1 a2 a2 a5 b1	
- WBCs	2	2	a1, a2, a3,a5, b1,	
N. 11	2	2	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				
- Immunological aspects of	2	2	a6,a7,c4, d1,d2,d3	
parasitic diseases			, , , , ,	
1 – Lectures		1		٥-أساليب التعليم
2- practical lessons (in the Unive	ersity hosr	oital lab.)		٥-أساليب التعليم والتعلم:
3-searches in the library for Text			2	, 3
4-searches in computers.				
	لا يوجد			٦-أساليب التعليم
	. J.			والتعلم لذوي القدرات
				المحدودة:
				٧-تقو بم الطلاب:
White				المحدودة: ٧-تقويم الطلاب: أ-الأساليب المستخدمة:
- Written exam.				
- Oral exam.				
				1

Final exam in May or November	ب-التوقيت:
-Written exam.: 100 marks - Oral exam: 50 marks	ج-توزيع الدرجات:
	٨-قائمة الكتب والمراجع:
- Post graduate Lecture notes prepared by the staff member of the	أ-مذكرات:
department	
- Manual of Medical Laboratory Techniques by Ramakrishnan S,	ب-كتب ملزمة:
Sulochana KN(2012).	
- Clinical Pathology, Haematology and Blood Banking by: Maheshwari	
Nanda(2008).	
- Monica(2004): District laboratory practice in Tropical countries.	ج-كتب مقترحة:
http://www.ncbi.nlm.govhttp://www.google.com	د-دوريات علمية أو
http://Freemedicaljournals.com	نشراتالخ

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

Benha University Faculty of Medicine Biochemistry Department

Course Specifications of Biochemistry for MD Degree in Medical Parasitology

					اجيانات المقررالرمز الكودي:
المستوى:		اسم المقرر:			
دکتور اه جزء أول	Medical Bioche	mistry			Para704
عدد الوحدات الدراسية:					التخصص:
- نظ <i>ري:</i> ٢ ساعة معتمدة					دكتوراه الطفيليات
		مدة	- عملي: ١ ساعة معتم	-	الطبية
- By the end of the course the post graduate graduate s should be able to have the professional knowledge of the biochemistry that serves in the field of parasitology diseases.				٢-أهداف المقرر	
			ر:	للمقر المقر	٣-المستهدف من تدريس
By the end of the course, the student should be able to:					
A1- discuss the biochemical importance of intermediary metabolism (Anabolic and catabolic)				أ-المعلومات والمفاهيم:	
a2- identify the importance of clinical biochemistry				1,1	
a3- Explain the role of vitamin, Minerals					
a4- explain hormonal a	ction				
B1- Integrate basic bio	ochemical and ph	ysiological	facts with clinical da	ata	ب-المهارات الذهنية:
C1- identify the biochemical defect				ج-المهارات المهنية	
C2- perform some laboratory tests for early diagnosis.			الخاصة بالمقرر:		
c. 3Diagnose the affected biochemical deficiency.					
D1- Acquire skills to use computer to enter biochemistry web sites and self learning.		د-المهارات العامة:			
d2- work in a team for	accurate diagnos	ing of diseas	ses using internet.		
Topics	Lectures	Practical	ILO's covered		٤ -محتوى المقرر:

(1)Biological oxidations	3		a1,a2	
(2) Glycolysis and citric acid cycle:	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 chromosomes	3	2	a1,a2, b1, b2,b3, c1,c2	
(11)Hormones	3		a1,a2,a4. b1, b2, c1	
4.1- Lectures4.2- Searches in computers (assignments)4.3- practical			٥-أساليب التعليم والتعلم:	
لا يوجد			 ٦-أساليب التعليم والتعلم لذوي القدرات المحدودة: 	
				٧-تقويم الطلاب:
Written exam.Oral exam.				أ-الأساليب المستخدمة:
Final exam in May or November			ب-التوقيت:	
-Written exam.: 140 marks - Oral exam: 60 marks			ج-توزيع الدرجات:	
٨-قائمة الكتب والمراجع:				
- Postgraduate Lecture notes prepared by the staff members in the department.			أ-مذكرات:	

 Text book of medical biochemistry by Rana Shinde(2011). Essentials of Biochemistry by: Naik Pankaja (2012). 	ب-كتب ملزمة:
1- Clinical biochemistry, by Vasudevan DM, S Sreekumari, Vaidyanathan Kannan, K Geetha Damodaran2011	ج-كتب مقترحة:
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.	

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

Benha University
Faculty of Medicine
Microbiology& Immunology Department

Course Specifications of Medical Genetics in MD Degree in

Medical Parasitology

		١ -بيانات المقرر
المستوى:	اسم المقرر:	الرمز الكودي:
دكتوراه جزء أول	Medical Genetics	Para 705
	عدد الوحدات الدر اسية:	التخصص:
	- نظري: ٣ ساعات معتمدة	دكتوراه الطفيليات الطبية
By the end of this cour	se the graduate should be able to:	٢-أهداف المقرر
Have the basic knowled	dge about genes morphology, structure and function,	
classification of	netics and inheritance, genetic disorders and f genetic diseases and to prepare him/her for further the course of Modern Genetics	
) المقرر:	٣-المستهدف من تدريس
By the end of the cours	se, the student should be able to:	
a.1: identify the stages	of mitosis and meiosis, as well as the cell cycle, and	أ-المعلومات
explain the significance	e of each	أ-المعلومات والمفاهيم:
a.2: discuss the chemic	al nature of genetic material (DNA & RNA)	
a.3: describe how the I	ONA is organized to serve as genetic materials (gene	
and genome)		
a.4: describe the norma		
a.5: explain how the ge		
process of transcription	1.	
a.6: Identify the genetic	c code.	
a.7: explain the translat	tion of genetic information on mRNA into	

polypeptide chains.			
a.8: discuss gene mutation and DNA r			
a.9: Identify chromosomal numerical a	and structural	aberrations.	
a.10: illustrate the basic concepts of M	Iendelian and	non Mendelian	
inheritance.			
a.11: Identify the various types of chro	omosomal disc	orders and biochemical	
genetics.			
a.12: identify the new concepts of DN	A technology.		
a.13: Gain the knowledge of the use of disease	f this technolo	gy in the advances	
B1-Integrate and evaluate genetic info	rmation and d	ata from a variety of	ب-المهارات الذهنية:
sources in order to gain a coherent und	derstanding of	theory and practice.	
b2- Find and evaluate new solutions to	many kinds o	of Genetic problems.	
c-1 diagnose gene disorders	ج-المهارات المهنية الخاصة بالمقرر:		
D1- work in a team.		د-المهارات العامة:	
d3- Think scientifically.			
d4- Create the tendency to apply the k			
Topic	Lectures	Practical	٤ -محتوى المقرر:
Introduction (from gene to genome)	2		
Patterns of inheritance	2	1	
Mendelian, non Mendelian,			
Multifactorial			
Update in medical genetics	2	2	
Chemistry of nitrogenous 3 2			
Bases DNA replication			
RNA synthesis			
Genetic code			
Protein synthesis			
Regulation of gene expression			

DNA alteration			
Molecular biology and	2	2	
Parasitology			
Nuclear contents	3	2	
Cell divisions (miosis and mitosis)			
Chromosome structure and function			
Mutations	3		
Mendalian disorders			
Transmission pattern of			
Single gene disorders			
Disorders associated with	4	2	
defects in structural proteins			
Disorders associated with			
defects in receptor protein			
Disorders associated with			
enzyme defects			
Disorders associated with			
defects in proteins that			
regulate cell growth			
Disorders of multi-factorial	2		
Inheretence			
Cytogentic disorders	2	2	
Single gene disorder with			
non classic inheritance			
Genetics and cancer	1		
Immunogenetics	2	2	
Genetic engineering	2		
4.1-lecture (data show, video-clip)			٥-أساليب التعليم
4.2-class discussion			٥-أساليب التعليم والتعلم:
4.3-graduate 's group-project			
4.4-CDs/ slide projector.			

لا يوجد	٦-أساليب النعليم والتعلم لذوي القدرات المحدودة:
	٧-تقويم الطلاب:
- Written exam.	أ-الأساليب المستخدمة:
- Oral exam.	المستخدمة:
Final exam in May or November	ب-التوقيت:
-Written exam.: 100 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- An Introduction to Genetics and Fetal Medicine by Deepika Deka, Narendra Malhotra, 2010	ب-كتب ملزمة:
2- Review of genetics, by Kumaran S Senthil, 2010	
1) Discovering Genomics, Proteomics and Bioinformatics 2nd edition - by	ج-كتب مقترحة:
A.Malcolm Campbell and Laurie J. Heyer. (ISBN 0-8053-4722-4; published	
by Cold Spring Harbor Laboratory Press and Benjamin Cummings: 28,	
February, 2006).	
2) Essentials of Medical Genetics 13th edition-by AlanE.H.Emery.	
ChurchillLivingstone, 2007.	
BMC Genetics ; Current genetics ; Journal of Genetics	د-دوريات علمية أو نشراتالخ

رئيس مجلس القسم العلمي:	ستاذ المادة:
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Benha University Faculty of Medicine Community Medicine Department

Course Specifications of Community Medicine for MD degree in Medical parasitology

			١ ـبيانات المقرر
المستوى:		اسم المقرر:	ا بيانات المقرر الرمز الكودي:
دكتوراه جزء أول	Medical Community Medicine		Para706
	:	عدد الوحدات الدراسية	التخصص:
	معتمدة	- نظري: 3 ساعات	دكتوراه الطفيليات
			الطبية
By the end of the cours	se the graduate should be efficient	ly able to: a -	٢-اهداف المفرر
Have the professional l	knowledge of a community- orie	ented physician	
capable of –skillfully a	nticipating and responding to com	munity health	
needs.		•	
b - Apply the knowle	dge and skills learned, and to take	leadership in	
motivating the commun	nity served as regards the preventi	ve aspects	
concerning parasites ar	nd its relation to Medicine		
		المقرر:	٣-المستهدف من تدريس
By the end of the course	e, the graduate should be able to:		
By the end of this cour	se the graduate should be able to:		أ-المعلومات والمفاهيم:
a1- Describe the spect	rum of parasitic diseases.		
a.2- Explain the three	interacting ecological factors—ag	gent, host, and	
environment—affecting	g the occurrence of disease.		
a.3- Describe the deter	rminants of health on the individu	al, the family, and	
the community levels			
a.4- Describe the epid	emiology and public health impor	tance of human	
parasitic infections on	the individual, the family and com	nmunity levels.	
a.5- Define patterns or	f care as preventive and curative,	and describe the	
levels of preventive car	re.		

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.	ب-المهارات الذهنية:
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	
communicable and noncommunicable diseases.	
b.7- select health behavior 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	ج-المهارات المهنية
origin) in the locality.	الخاصة بالمقرر :

c.2- Participate in	conducting public	health surveillan	ice.	
c.3- Advocate appr				
D1- Communicate v	well with his colle	eagues.		د-المهارات العامة:
d2- work in a team	for accurate diag	nosing of disease	es.	
d3- Use standard co	mputer programs	effectively (wind	low, office	
programs).				
d4- Utilize comput	ters in conducting	research and to C	Collect scientific	
data.				
Topic	Lectures	Tutorial	Course ILO's	٤ -محتوى المقرر:
-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 infections; 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	
-Arthropode born	2	1	a1,a2,a3,	

parasitic diseases				a4,a5,a6,	
				b1,b2,b3,b4,	
				b5,b6,b7,	
				c1,c2,c3	
-Emerging and				a4,a5,a6, b2, c2	
remerging	1	1			
parasites					
-Investigations					
of a parasitic				a4,a5,a6, a7,	
epidemic, the	1	1		b8,b9,	
attack rates				d1,d2,d3, d4,	
				01,0 <u>2</u> ,00, 0.,	
-Methodology				a10,a11, a12,	
	3	2		b10,	
				d2,d3, d4	
-Statistics				a8, a9,	
Terminology and				a9	
rationale					
	5	2			
Data collection				a7,a8,a9, b3, b9,	
Types of data				b10,	
Tabulation of				b11, c1, c2, d1,	
data				d2,	
Graphical				d3, d4	
presentation of					
data					
Measures of					
dispersion					
Normal					
distribution					
curves					
	_		4		
-International	2		1		
classification of				2 414	
diseases.				a3,a4,b1	
International	1		1	a3,a4,b1	
-International	1		1		
death certificate.					
-Study design				a10,a11, a12, b9,	
Cross sectional				c1,	
study and the	2		1	d1,d2, d3, d4	
prevalence rate	2		*	a1,02, 45, 41	
cohort study,					
conort study,					

incidence rate,	
Odd ratio.	
Sampling	
3 1 a7, b9,c2	
1- Lectures	٥-أساليب التعليم
2- Computers searches (assignments).	٥-أساليب التعليم والتعلم:
3- Tutorial	
لا يوجد	٦-أساليب التعليم
	والتعلم لذوي القدرات
	المحدودة:
- Written exam.	والتعلم لذوي القدرات المحدودة: ٧-تقويم الطلاب: أ-الأساليب المستخدمة:
- Written exam.	
- Orai exam.	ب-التوقيت:
Final exam in May or November	
-Written exam.: 100 marks - Oral exam: 50 marks	ج-توزيع الدرجات:
	٨-قائمة الكتب والمراجع: أ-مذكرات:
- Department notes, lectures and handouts	ا-مذکرات:
. Maxy- Rosenau Public health and preventive medicine, Prentice – Hall	ب-كتب ملزمة:
International Inc.	
-1- Dimensions of Community Health, Boston Burr Ridge Dubuque.	ج-كتب مقترحة:
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.	
1- American Journal of Epidemiology.	د-دوريات علمية أو نشراتالخ
2- British Journal of Epidemiology and Community Health.	نشراتالخ
3- WWW. CDC and WHO sites.	

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

Benha University
Faculty of Medicine
Hepatology and Gastroenterology Department

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

	١-بيانات المقرر			
اسم المقرر:	المبيانات المقرر الرمز الكودي:			
Hepatology and gastroenterology	Para707			
· -	التخصص:			
	دكتوراه الطفيليات			
w w	الطبية ٢-أهداف المقرر			
	۱ - اهداک المعرز			
s and its common causes. Also, the etiology,				
picture, complications and management of the most				
eases. And to understand the most common				
patic diseases especially those prevalent in our				
diagnose and manage them in an efficient degree to				
help him/her as a future medical parasitologist.				
٣-المستهدف من تدريس المقرر:				
e, the student should be able to:				
e, the graduate is expected to practice the following:	أ-المعلومات والمفاهيم:			
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				
	عدد الوحدات الدراسية: عدد الوحدات الدراسية: عملي: ٢ ساعه معتمدة عملي: ١ ساعه معتمدة عملي: ١ ساعه معتمدة عملي: ١ ساعه معتمدة عملي: ١ ساعه معتمدة se, the graduate should be able to have basic s and its common causes. Also, the etiology, octure, complications and management of the most eases. And to understand the most common patic diseases especially those prevalent in our diagnose and manage them in an efficient degree to e medical parasitologist. e, the student should be able to: e, the graduate is expected to practice the following: on infectious, hepatic and gastrointestinal diseases at common diseases and public health problems in on of diseases and new concepts in their			

a6- describe the common diagnostic, laboratory, radiological and other	
techniques.	
a8- discuss the various therapeutic methods/ alternatives used for common	
diseases (supportive therapy, nutrition, pharmacotherapy, surgical	
treatment)	
a9- identify general methods for health promotion and disease prevention.	
. By the end of the course, the student should be able to:	ب-المهارات الذهنية:
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- innovate nontraditional solutions to problems.	
C1- Perform general and abdominal examination of patients .	ج-المهار ات المهنية الخاصة بالمقرر :
c2- Diagnose common infectious diseases(parasitic, bacterial and viral) and	الخاصة بالمقرر:
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.	
D1- Work in a team.	د-المهارات العامة:
d2-Communicate well with his colleagues, top management and	
subordinates	

d3- Establish a good patient-physic	ian relationship.	
D4- Use computers in conducting r		
Diagnosis of a case of fever	٤ -محتوى المقرر:	
Ascariasis		
Nosocomial infections	Helminthic Diseases	
Strongyloidiasis	Tissue larva migrans	
Schistosomiasis	Paragonimus westermani	
Cappilariasis Trichinosis	Filariasis	
Fascioliasis	Clonorchis sinensis	
Loaisis	Onchocerciasis	
Heterophyes heterophyes	Taeniasis	
Dracanculus medinensis	Treatment of helminthic infections	
Hymenolepis nana, diminuta	Diphylobothrium latum	
Hydatid disease	Enterobiasis, Ancylostomiasis	
Protozoal Diseases	Malaria	t arts to f
1- Lectures.		٥-أساليب التعليم والتعلم:
.2-practical lessons (ward and class	rounds).	والنعلم:
3-searches in the library for Text B	ooks in case taking.	
4- Assignments.		
بد	٦-أساليب التعليم	
		والتعلم لذوي القدرات المحدودة: ٧-تقويم الطلاب: أ-الأساليب المستخدمة:
		المحدودة:
		٧-نفويم الطارب: أراز السرال تندية
- Written exam.		١-الاساليب المستحدمة:
- Practical exam .		
- Oral exam.		
Final exam in May or November	ب-التوقيت:	
-Written exam.: 100 marks	ج-توزيع الدرجات:	
- Oral exam: 50 marks	-practical exam:50 marks	
		المعائمة الكتب والمراجع: أ-مذكرات:
- Post graduate Lecture notes prepa	أ-مذكرات:	
department.		
. 1.Davidson text Book of Medicine	ب-كتب ملزمة:	
FRCP(Ed), Brian R. Walker,		
H. Ralston, MD, FRCP, FMed		
2.Hutchison Book for case taking		

-1.Hunter's Tropical Medicine	ج-كتب مقترحة:
2.Current diagnosis & Treatment in Gastroenterology	
3.Sheilla Sherlock (Text Book) of Hepatology.	
http://www.ncbi.nlm.gov	د-دوريات علمية أو نشراتالخ
http://www.google.com	نشراتالخ
http://Freemedicaljournals.com	

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

Benha University Faculty of Medicine Histology Department

Course Specification of Histology in MD Degree in Medical Parasitolog-

		البيانات المقرر الرمز الكودي:			
المستوى:	سم المقرر:	الرمز الكودي:			
دکتور اه جزء اول	Medical Histology	Para708			
	عدد الوحدات الدر اسية:	التخصص:			
	عدا الوحداث الدراسية. - نظري: ٢ ساعه معتمدة	المحصص دكتور اه الطفيليات			
By the end of this cours	se the graduate should be able to have the	الطبية ٢-أهداف المقرر			
Professional knowledge	e about:				
1.The Structure of diffe	rent 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 be	nefit of the main field of specialty: Medical				
Parasitology.					
، من تدريس المقرر:					
By the end of the course	1: 11				
By the end of the progr	أ-المعلومات والمفاهيم:				
a1. describe different ty					
and tissues.					
a2- discuss the knowledge of arrangements of cells.					
a3- explain the bases of medical genetics.					
a4- explain the bases of molecular biology.					
. b1-Correlate the struct	ب-المهارات الذهنية:				
and organs.					
b2-differentiate between normal structure of any given histological slide.					
c.1- Obtain information	from histological slides.	ج-المهارات المهنية			

c.2- Identify the structura	الخاصة بالمقرر:		
microscopic levels.			
c.3- Identify and draw tis	ssues and organs by	examining stained sections	
with the light microscope	e and by examining	electron- micrographs.	
c.4- Properly handle a sp	ecimen and prepare	a stained slide from it	
c5- Perform further in de			
	-	ues in his/her field of study.	
d.1 work in a team	1 1	<u> </u>	د-المهار ات العامة:
d2 use information techn	ology		
d3 communicate effective			
	Cly		٤ -محتوى المقرر:
Topic	Lectures(30)	Practical(15)	ع محتوى المعرر.
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	1		
system	-		
Endocrine system	1	1	
Molecular biology and	4	1	
its			
significance in			
histology			
Principles of medical	4	1	
genetics	_	_	
Microtechnique	3	2	
Staining			t ati ti f
-Lectures	٥-أساليب التعليم والتعلم:		
- Practical sessions, supp	orted by academic s	taff.	·
	 ٦-أساليب التعليم و التعلم لذوي القدرات المحدودة: 		
			والتعلم لذوي القدرات
			المحدودة:

	٧-تقويم الطلاب: أ-الأساليب المستخدمة:
- Written exam.	أ-الأساليب المستخدمة:
- Oral exam.	
- Practical exam.	
Final exam in May or November	ب-التوقيت:
-Written exam.: 100 marks - Oral exam: 25 marks	ج-توزيع الدرجات:
-practical exam: 25 marks	
	٨-قائمة الكتب و المراجع:أ-مذكر ات:
- Course Notes :Lecture notes prepared by the staff member in the	أ-مذكرات:
department.	
-Laboratory manual authorized by the department	
Histology and cell biology by Abraham L. 2012.	ب-كتب ملزمة:
- Functional Histology by Jeffrey B. 2010.	
Human Histology by Alan Stevens, 2005	ج-كتب مقترحة:
: www.yahoo.com	د-دوريات علمية أو
www.pubmed.com	د-دوريات علمية أو نشراتالخ

أستاذ المادة: أ.د. محمد مجدي زكي رئيس مجلس القسم العلمي: أ.د. محمد مجدي زكي

Benha University Faculty of Medicine Medical Parasitology Department

Course Specification of Medical Parasitology in MD Degree in

Medical Parasitology

		١-بيانات المقرر الرمز الكودي:				
المستوى:						
دكتوراه جزء ثاني	Medical Parasitology	Para714				
	عدد الوحدات الدراسية: - نظري: ٧ ساعات معتمدة	التخصص: دكتوراه الطفيليات				
	-					
By the end of the co	ourse, the graduate should be able to have the perfect	الطبية ٢-أهداف المقرر				
creative knowledge of	the parasites affecting human beings all over the					
world and, so to be able	e to efficiently diagnose and teach medical					
parasitology to undergr	raduates and ready to develop her/his level by					
self-learning to add kno	owledge in the specialty.					
	99	٣-المستهدف من تدريس				
By the end of the course	e, the student should be able to:					
2.a.1. identify sufficien	ا-المعلومات و المفاهيم:					
all over the world and a	zoonosis.					
2.a.2. discuss the geogr						
vectors, inside and outs						
2.a.3. describe the pathology, clinical symptoms and complications of each						
parasite.						
2.a.5. identify the recor	2.a.5. identify the recommended laboratory tests needed for diagnosis of					
each case.	each case.					
2.a.6. discuss the drugs	and instructions used for treating each case.					
2.a.7. identify control r						

	,
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.	ب-المهارات الذهنية:
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 organism.	
2.b.3. Evaluate according to evidence, the causal relationship of parasites	
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 المهنية الخاصة بالمقرر:
2.c.2. Identify different stages of the parasites and vectors of diseases.	
2.c.3. Identify some of the medically 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.	
2.d.1. Use the computer to enter parasitological web sites.	د-المهارات العامة:
2.d.2. Collect scientific data from the computer.	

2.d.3. Work in groups, as a lea						
2.d.4. Collect data from media						
2.d.5. Compile a review articl	e about a spe	cific subject.				
Course Title	Course Code	NO. of Te	aching hou week	rs per	٤-محتوى المقرر:	
		Theoretical	Practical	Total/ Week		
1- Advanced Helminthology	PARA 709	2	3	5		
2- Advanced Protozology	PARA710	2	3	5		
3- Advanced Entomology	PARA 711	1	1.5	2.5		
4-Advanced Immunology and Molecular Biology of Parasitic infections	PARA712	1	-	1		
5- Advanced Diagnostic techniques for parasitic infections & prevention methods	PARA713	1	1.5	2.5		
Total:		7	9	16		
Tarkensa						
Lectures.Practical lessons.	٥-أساليب التعليم والتعلم:					
-Assignments.						
-Attending and participating i	n scientific c	onferences, w	orkshops	and		
thesis discussion to acquire th			-			
<u> </u>	لا يوجد				٦-أساليب التعليم	
					والتعلم لذوي القدرات	
					المحدودة: ٧-نقويم الطلاب:	
					٧- تقويم الطلاب: أ-الأساليب المستخدمة·	
- Written exam	- Written exam					
- Practical exam.	- Practical exam .					
- Oral exam.						
Final exam in May or November					ب-التوقيت:	
-Written exam.:600 marks - Oral exam: 350 marks					ج-توزيع الدرجات:	
-practical exam: 250 marks					. I the cother stock	
					٨-قائمة الكتب والمراجع:	

- Postgraduate Lecture notes prepared by the staff member in the	أ-مذكرات:
department.	
Textbook of Medical Parasitology by Janpath (2009).	ب-كتب ملزمة:
- Textbook of Medical Parasitology by McDreamy, 2012.	
- Manson's Tropical Diseases, Cook GC (ed), 21st edition. London:	
WB Saunders, 2003.	
- Introduction to infectious and parasitic diseases, by Millard	
Langfeld, 2010.	
- Immunity to Parasites. How Parasitic Infections are Controlled	
2nd Edition <u>Derek Wakelin</u> University of Nottingham, 1996.	
- A colored Atlas of tropical Medicine and Parasitology.	ج-كتب مقترحة:
-www.dpd.cdc.gov/dpdx/html/Frames/OtherDocs/body	د-دوريات علمية أو نشراتالخ
-www.hon.ch/HONselect/Selection/C03.	نشراتالخ
-www.mic.stacken.kth.se/Diseases/C03.	
- <u>www.wellsphere.com/</u>	
- <u>www.cdc.gov/</u>	
http://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	

	العلمي:	، القسم	مجلس	رئيس	حسين	محمد	أ.د.	المادة:	ستاذ
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