

جامعة بنها كلية الطب البشرى قسم الأمراض الصدرية

توصيف برنامج ماجستير الأمراض الصدرية

(عام ۲۰۱۳-۲۰۱۲)

* معلومات أساسية : Basic information

١ ـ اسم البرنامج : ... ماجستير في الامراض الصدريه

۲ ـ طبيعة البرنامج: multiple (مشترك)

٣- القسم/ الأقسام المسئولة عن البرنامج: - قسم الأمراض الصدرية -

٤ - اسم القسم المانح للدرجه: - قسم الأمراض الصدرية -

- الاقسام المشاركه في البرنامج: قسم التشريح – قسم الهستولوجي –قسم الفيسيولوجي – قسم الكيمياء الحيوية الطبية – قسم المباطنية – قسم الامراض الباطنية

٦- تاريخ إقرار البرنامج في مجلس القسم: ٢٠١٣/ ٩/ 5

٧- تاريخ إقرار البرنامج في مجلس الكلية: 2013 / 9 /15

A- مسؤل البرنامج: . Prof. Magdy Omar

Professor of Chest Diseases and Tuberculosis- Member of the Egyptian Society of Chest Diseases and Tuberculosis

Prof. Mahmoud El-Sahahy: المراجة الداخلية للبرنامج

Professor of Chest Diseases and Tuberculosis- Member of the Egyptian Society of Chest Diseases and Tuberculosis

Prof. Fawzy Abu Al-Naga Al-Omery. : المراجعة الخارجية للبرنامج. (Prof. Chest Diseases and Tuberculosis, Tanta faculty of medicine)

Professional information

معلومات متخصصة:

١ - الأهداف العامة للبرنامج:

1- Overall Aims of the Program:.

The overall goals of the program are:

- 1.1: To provide the knowledge and educational experience for the basic practice in the field of the Chest medicine.
- 1.2 : **To provide** students with an understanding of the Diagnosis, problem solving makes skills necessary for proper evaluation and management of chest disease.
- 1.3 : To familiarize students with the *patients and how to ask for medical history* & how to detect physical signs.
- 1.4: To enable the students to reach the diagnosis and choose the best diagnostic modalities &



treatment for various chest disorders.

- 1.5 : **To teach** appropriate ethical and professional skills necessary for establishment of good communication with patients and colleagues.
- 1.6 : **To learn** competencies necessary for continuous professional development.
- 1.7 : **To provi**de the basics of bronchoscopy procedure techniques of interventional bronchoscopy and visualize the bronchial tree and Know different modalities of interventional pulmonology

٢ ـ المخرجات التعليمية المستهدفة من البرنامج:

2-Intended Learning Outcomes (ILOS):

2. a. Knowledge and Understanding :أ - المعرفة والفهم

By the end of the sessions the student should be able to:

- **2. a.** *1:* Describe the normal structure and function of the human respiratory systems and mind at the molecular, biochemical & cellular structures.
- **2. a. 2:** Know how to take respiratory history & understand beside clinical signs and the methods of investigations of different pulmonary diseases.
- **2. a. 3:** Describe the ways of pulmonary medical treatment; know the indications & contraindications of pulmonary intervention procedures and alternative surgical treatment strategies.
- **2. a.** 4: Recognize the scientific basis and interpretation of various diagnostic modalities for establishing diagnosis of some diseases.
- 2. a. 5: Understand how to follow up the patient during treatment & deal with complications

2 ب ـ القدرات الذهنية:

2.b: Intellectual Skills:-

By the end of the sessions the student should be able to:

- **2. b.1:** relate the clinical and investigational database to be proficient in clinical problem solving in respiratory medicine.
- **2. b.2: Solve problems** through analyses of all sources of information in addition to the patient interview to Interpret and evaluate the medical history.
- **2.b.3:** Formulate the questioning approach to own work & that of others to solve clinical problems.
- **2.b.4:** Interpret patient symptoms and physical findings in terms of their anatomic, pathologic and functional diagnostic significances.
- **2.b.5:** Create diagnostic hypothesis with the available modes of investigations & Select the most appropriate and cost effective diagnostic procedures for each problem.

٢ج: مهارات مهنية وعملية:

2.c. Practical & Clinical Skills:-

By the end of the sessions the student should be able to:

- **2. c.1:Perform** basic diagnostic skills in field of respiratory medicine.
- **2. c.2: write** safe prescription for different chest diseases.
- 2. c.3: Write medical reports related to chest diseases.



2.c.4 *mange* different chest diseases.

By the end of the sessions the student should be able to:

- 2. d.1:Establish life-long self-learning required for continuous professional development.
- **2. d.2:Use** the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.
- **2. d.3:Retrieve**, with manipulation of information by all means, including electronic means.
- **2. d.4:Present** information clearly in written, electronic and oral forms.
- 2. d.5:Establish effective interpersonal relationship to Communicate ideas and arguments.
- 2. d.6:Work effectively as a member or a leader of an interdisciplinary team and

3- Academic Standards

٣ - المعايير الأكاديمية للبرنامج:

• Academic Standards of Master Program of chest diseases and tuberculosis, approved in department council no (2) date 05/9/2013, and in faculty council no. (356) date 10/9/2013.

4- Reference standards

4- العلامات المرجعية:

(5): Program structure and contents

5 - هيكل ومكونات البرنامج:

أ ـ مدة البرنامج: (18 months)

Program duration

- 1st part: One Semester (6 months)
- 2nd part: one Semester (12 months)
- Thesis: (one semester)

ب ـ هيكل البرنامج:

Program structure

- Total hours of program 36 credit hours
- Theoretical ...16
- Practical ...8
- University requirements: 6
- Thesis 6 credit hours

ج- مستويات ومقررات البرنامج: الزامي compulsory





الساعات	الكود	المقررات	البند
المعتمدة		~	•
٦ساعات	UNIV 601	للجامعة والكلية	متطلبات
۷ ساعات		يشمل الأتى :	الجزء الأول
١.٥ ساعة	CHES 601	مقرر علمي في الفسيولوجيا والكيمياء	
		الحيوية	
۱ ساعة	CHES 602	مقرر علمي في التشريح والنمو الجنيني	
		والهستولوجيا	
۱ ساعة	CHES 603	مقرر علمي في الفارماكولوجيا	
١.٥ ساعة	CHES 604	مقرر علمي وعملي في الباثولوجيا	
۱ ساعة	CHES 605	مقرر علمي وعملي في البكتريولوجيا	
۱ ساعة	CHES 606	مقرر علمي في الصحة العامة	
		والوبائيات	
٥ ساعات		تسجل بها الأنشطة المختلفة مثل	كراسة الأنشطة
		حضور الندوات العلمية	
١٦ ساعة			الجزء الثانى
۳ ساعات	CHES 607	مقرر علمي واكلينيكي في الامراض	
		الباطنية	
۱۰ساعات	CHES 608	مقرر عملى واكلينيكي في الامراض	
		الصدرية التدرن	
٣ساعات		تدريب حقلى على مكافحة الدرن	
		والأمراض الصدرية	
٦ ساعات			رسالة
			الماجستير
٠٤ ساعة			الاجمالي

First part (15 weeks duration/6 months)

a- Compulsory courses:

	Number s of hours per week	Total





		Lect	practical	Teaching hrs.
Physiology	CHES601	24	48	72
Medical Biochemistry				
Anatomy & embryology	CHES602	24	48	72
Histology				
Pharmacology	CHES7.3	24	48	72
Pathology	CHES7+4	24	48	72
Microbiology	CHES7.5	24	48	72
Community medicine	CHES7.6	24	48	72
Internal medicine	CHES1.7	48	48	96
Medical Statistics	UNI600	24	48	72
Total		194	396	600

b- Elective courses: none

Second part (30 weeks duration/12 months)

a- Compulsory courses.

		Num	ber s of hours per week	Total teaching
		1	. practical	
Medical &surgical pulmonary medicine	CHES608	240	768	1008
Field study		48	96	144
Log Book				
Activities				
Total		288	864	1152

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

٦- محتويات المقررات (راجع توصيف المقررات)





- كود أو رقم المقرر :
 - اسم المقرر:
- المحتويات: (طبقاً لما هو مذكور في اللائحة)

Program admission requirements

٧ ـ متطلبات الإلتحاق بالبرنامج:

متطلبات الإلتحاق بالبرنامج: (طبقاً لما هو مذكور في اللائحة):

(7): Program admission requirements:

مادة (٤): يشترط في قيد الطالب لدرجة الماجستير:

(1)

- أ- أن يكون حاصلا على درجة البكالوريوس في الطب والجراحة من احدى جامعات جمع أو على درجة معادلة لها من معهد علمي معترف به من الجامعة بتقدير جيد على الأقل.
- ب- يسمح للحاصل على الدبلوم وفقا لنظام هذه اللائحة وبتقدير جيد على الأقل بتسجيل رسالة لاستكمال درجة الماجستير بشرط ألا يكون قد مر أكثر من ثلاث سنوات على تاريخ حصوله على درجة الدبلوم وبغض النظر على تقديره في درجة البكالوريوس.
- ت- يسمح للحاصل على الدبلوم وعلى خلاف لنظام هذه اللائحة أن يسجل لدرجة الماجستير بشرط أن يكون تقديره في الدبلوم لا يقل عن جيد وبغض النظر عن تقديره في البكالوريوس.
 - (٢) أن يكون قد أمضى السنة التدريبية أو ما يعادلها (سنة الامتياز)
 - (٣) أن يتفرغ للدراسة لمدة سنة على الأقل في الجزء الثاني (فصلين دراسيين)
 - مادة (٥): يكون التقدم للقيد لدرجة الماجستير مرة واحدة في السنة خلال شهري يوليو وأغسطس من كل عام.
 - تبدأ الدراسة لدرجة الدبلوم في شهر أكتوبر من كل عام.

٨ ـ القواعد المنظمة لإستكمال البرنامج:

مادة (٦): تتولى لجنة الدراسات العليا بالكلية عن طريق لجنة تشكل لكل تخصص من أعضاء مجلس القسم التابع له المادة والقسم المانح للدرجة وضع البرنامج التفصيلي للمقررات في حدود الساعات المعتمدة الواردة باللائحة وعند الاختلاف يتم الاسترشاد بمقررات جامعة القاهرة ومقررات الشهادات العالمية الاوربية والامريكية يعتمدها مجالس الأقسام ثم يقرها مجلس الكلية وتشمل هذه الساعات محاضرات نظرية ودروس عملية وتدريب اكلينيكي ومحاضرات وندوات مشتركة.

مادة (٧): يشترط في الطالب لنيل درجةماجستير التخصص في أحد الفروع الاكلينيكية والعلوم الطبية الأساسية:

- أ- حضور المقررات الدراسية والتدريبات الاكلينيكية والعملية والمعملية بصفة مرضية طبقا للساعات المعتمدة.
- ب- أن يقوم بالعمل كطبيب مقيم أصلي أو زائر لمدة سنة على الأقل في قسم التخصص بالنسبة للعلوم الاكلينيكية.
 - ت- أن ينجح في امتحان القسمين الأول والثاني.
- ث- اجتياز الطلب لثلاث دورات في الحاسب الآلي (دورة في مقدمة الحاسب دورة تدريبية متوسطة دورة في تطبيقات الحاسب الآلي) وذلك قبل مناقشة الرسالة.
 - ج- اجتياز اختبار التويفل بمستوى لايقل عن ٤٠٠ وحدة وذلك قبل مناقشة الرسالة.
 - ح- أن يقوم باعداد بحث في موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهي باعداد رسالة تقبلها لجنة التحكيم.





9 - Students Assessment Methods

٩ -طرق وقواعد تقييم الملتحقين بالبرنامج

ما تقيسة من مخرجات التعلم المستهدفة	الطريقة	م
To assess knowledge and understanding & intellectual skills:	Written examination	1
From 2.a.12.a.10. and b.12.b.^.		•
To assess knowledge and understanding, intellectual	Oral examination	2
skills & General & transferable skills 2.a.12.a.10. , 2.b.12.b. ^., 2.d.12.d.8 .		2
To assess knowledge and understanding, intellectual skills & practical and clinical skills and General &	Practical & clinical examination	3
transferable skills:		3
2.a.12.a.10., 2.b.12.b.^.,		
2.d.12.d.8.2.a.12.a.10., 2.c.12.c.8.		
To assess knowledge and understanding, intellectual	Thesis Discussion	
skills & practical and clinical skills and General & transferable skills:		
2.a.12.a.10., 2.b.12.b.\(^{\lambda}\).		
2.d.12.d.8.2.a.12.a.10., 2.c.12.c.8.		

Final exam.

First part

إجمالي		رجة	الــدر		الاختبار	المقرر
إجماني	إكلينيكي	عملي	شفهي	تحريري	۱ ه حنیار	المعرر
200		50	٥,	١	اختبار تحريرى مدته ساعة ورقه منفصله	التشريح
		20			+ اختبار شفوي + اختبار عملي	
200		50	٥,	١	اختبار تحريرى مدته ساعة ورقه منفصله	الفسيولوجي
		30		,	+ اختبار شفوي + اختبار عملي	العسيوتوجى
200		50	٥,	١	اختبار تحريرى مدته ساعة ورقه منفصله	1
		50		,	+ اختبار شفوي + اختبار عملي	الباثولوجيا
150			50	١	اختبار تحريرى مدته ساعة ورقه منفصله	القار بالأداء
			50	,	+ اختبار شفوي	الفارماكو لوجى
10.					اختبار تحريرى مدته ساعة ورقه منفصله	الصحة والوبائيات فيما يخص
			٥,	١	+ اختبار شفوي	الجهاز التنفسى
200		50	50	100	اختبار تحريرى مدته ثلاث ساعات +	الامراض الباطنية العامة





				اختبار اكلينيكى+ اختبار شفوي	
100			100	اختبار تحريرى مدته ساعة ونصف	إحصاء طبي- طرق البحث - القيم الطبية
1200	جة	إجمالي الدر			

Second part

Second p		*	A.			
إجمالي	السدرجه				الاختبار	المقرر
إجماني	شفهي	إكلينيكي	MCQ	تحريري	الاحتیار	المعرر
٤٠٠		100	30	170	اختباران تحريريان مدة كل منهما ساعتين ونصف+ امتحان MCQ مدته نصف ساعة في الامراض الصدرية والتدرن + اختبار اكلينيكي في الامراض الصدرية والتدرن + اختبار شفوى في الامراض الصدرية والتدرن و الوسائل التشخيصية .	الجراحة العامة
٤٠٠	جمال <i>ي</i> لدرجة					

Evaluation of Program:

١٠ ـ طرق تقويم البرنامج:

Evaluator	Tools	Sample
Internal evaluator (s)مقييم داخلي	Focus group discussion	Report Γ -1
	Meetings	
External Evaluator (s)مقييم خارجي	Reviewing according to	1-2 Report
	external evaluator	
	checklist report of NAQAA.	
طلاب السنة النهانية (s) Senior student	مقابلات , استبيان	جميع الطلبة
Alumni الخريجون	مقابلات ،استبيان	عينة لا تقل من من الله الله علية
		أخر ٣ حزمات
Stakeholder (s) أصحاب العمل	مقابلات ،استبيان	حالمع جيمعا قائمه قنيذ
		العمل
طرق أخرى Others	None	





Program Coordinator:	
Name Prof / Magdy Omar	Signature
Head of chest disease Departme Prof. Sherif Essa	ent signature

Date 02/09/2017





ملحقات:

ملحق ۱: Academic standard of the program

ملحق ٢: المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة.

ملحق 3: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

ملحق4: مصفوفة البرنامج مع المعايير الأكاديمية للبرنامج.

ملحق5: مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix

ملحق (٦): توصيف المقررات Program courses



Academic standard of the program

وثيقة المعايير الأكاديمية المرجعية لبرنامج الدبلوم

Academic Reference Standards for Master Degree in Chest Diseases and Tuberculosis

1. Graduate specifications

On completion study Master of Chest Diseases programs the graduate must be able to:

- 1-1 mastering the basics of the application and methodologies of scientific research and the use of his tools in the diagnosis and treatment of respiratory diseases
- 1-2 application of the analytical method and use different tactics in the diagnosis of thoracic diseases
- 1-3 specialized in the diagnosis and treatment of respiratory diseases and integrate various medical science knowledge applications
- 1-4 show awareness of respiratory disease and the ongoing development of plans for treatment
- 1-5 determine respiratory diseases that are related to the environment or to the various professions and find appropriate treatment her
- 1-6 mastering specific skills thoracic diseases and the use of various technologies in the diagnosis and treatment
- 1.7 Ability to work within a team to meet the needs of patients perform my bed and high-quality, ethical and responsible individual taken into account within the family and society
- 1-8 the ability to take the appropriate decision to resolve the acute respiratory problems in normal circumstances and disaster
- 1-9 to use available resources of devices and medical supplies to bring the greatest benefit to serve patients and the need to maintain them
- 1-10 show awareness in promoting public health and community development and environmental conservation in light of regional and global variables
- 1-11 the ability to follow the rules and ethics of the medical profession
- 1-12 capacity for self-development academically and professionally and to maintain CME
- 1-13 show the ability to craft required in dealing with patients, colleagues and the rest of the other disciplines
- 1-14 continuous self-assessments



2. The General standards

2.1 Knowledge and understanding

On completion study Master of Chest Diseases programs the graduate must be able to:

- 2.1.1 Grasping the basics and theories and knowledge on thoracic diseases and basic medical sciences related diseases pectoris
- 2.1.2 The effect of the exercise of Chest Diseases to preserve the environment of infectious and occupational diseases, environmental pollution
- 2.1.3 Ribs on specialist periodicals in respiratory diseases and diseases related to scientific research
- 2.1.4 Respect for academic and scientific, ethical and legal principles in the field of health care
- 2.1.5 Principles and the basics of quality in the diagnosis and treatment of respiratory diseases
- 2.1.6 The ability to follow the basics and ethics of scientific research and its applications
- 2.1.7 Main principles in éemergency medicine diagnosis and treatment of respiratory life-threatening diseases, including drug therapy with BS and non-intensive care with follow-up and rehabilitation in various stages of life
- 2.1.8 Population Health and demography health needs of the population and life statistics concepts
- 2.1.9 Main principles of infection and immunity and concepts infection control and patient safety

2-2 mental skills:

On completion study Master of Chest Diseases programs the graduate must be able to:

- 2.2.1 Data analysis and evaluation of disease history and clinical examination and selection of appropriate medical tests in order to put the right diagnosis and the development of appropriate treatment plan
- 2.2.2 Diagnosis of various thoracic diseases in the absence is reported on the potential for it
- 2.2.3 Linking various medical sciences to find the accurate diagnosis of respiratory diseases
- 2.2.4 Conducting a research study or writing a systematic scientific study on the problem of Chest Diseases problems contribute to the diagnosis or treatment
- 2.2.5 Improving performance planning to develop in the field of Chest Diseases
- 2.2.6 Risk practice Chest Diseases of infection and contact with the patient and take action to protect the graduate of the occupational diseases evaluation procedures
- 2.2.7 Make decisions for dealing with patient respiratory diseases in the light of the symptoms and tests available
- 2.2.8 Ensure cost-effectiveness in all remedial measures





2.2.9 Refer patients to obtain the appropriate specialist advice

2-3 clinical and professional skills:

On completion study Master of Chest Diseases programs the graduate must be able to:

- 2.3.1 Master the basic and modern skills in the field of thoracic diseases
- 2.3.2 Writing and evaluating various reports
- 2.3.3 Methods and tools to assess the list in the field of thoracic diseases
- 2.3.4 Identify cases to be referred to a higher level of care with the judgment on the possibility of self-disposition or not
- 2.3.5 a medical survey of the important cases of health

2-4 public and transferrable skills:

رئيس القسم

اد/ شر بف عبسی

On completion study Master of Chest Diseases programs the graduate must be able to:

- 2.4.1 Ability to communicate, coordinate and cooperate with the medical team and patients and their families and official bodies
- 2.4.2 The use of information technology in the diagnosis of respiratory diseases and to collect data on patients and archive files and save
- 2.4.3 The ability to self-assessment of medical practice
- 2.4.4 The use of different sources of information and knowledge about the disease Chest
- 2.4.5 Rules and indicators evaluating the performance of others
- 2.4.6 Work with a group within multi-team specialists
- 2.4.7 Learn management skills, including time management
- 7.5. Aself-learning ability and ability to ensure continuous medical learning

ملحق 2: المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة

المساع

توصيف برنامج ماجستير الامراض الصدرية



برامج الماجستير

١ موصفات الخريج

- خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على:
- ١-١ [جادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة
 - ١-٢ تطبيق المنهج التحليلي واستخدامه في مجال التخصص
- ٣-١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في مماسته المهنية
 - ١-٤ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص
 - ١-٥ تحديد المشكلات المهنية وإيجاد حلول لها
- ١-٦ إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
 - ١-٧ التوصل بفاعلية والقدرة على قيادة فرق العمل
 - ١-٨ اتخاذ القرار في سياقات مهنية مختلفة
 - ١-٩ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
 - ١-٠١ إظهار الوعى بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والاقليمية
 - ١-١١ التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة
 - ١-٢ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

2 المعايير القياسية العامة

٢-١ المعرفة والفهم:

- بأنتهاء دراسة برنامج الماجيستير يجب ان يكون الخريج على فهم ودراية بكل من:
- ٢-١-١ النظريات والأساسيات المتعلقة بمجال التعلم وكذًا في المجالات ذات العلاقة
 - ٢-١-٢- التأثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
 - ٢-١-٣ التطورات العلمية في مجال التخصص
 - ٢-١-٤ المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص
 - ٢-١-٥ مبادئ واساسيات الجودة في الممارسة المهنية في مجال التخصص
 - ٢-١-٦ اساسيات واخلاقيات البحث العلمي

٢-٢ المهارات الذهنية:

- بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:
- ٢-٢-١ تحليل وتقيم المعلومات في مجال التخصص والقياس عليها لحل المشاكل
 - ٢-٢-٢ حل المشاكلُ المتخصصة مع عدم توافر بعض المعطيات
 - ٢-٢-٣ الربط بين المعارف المختلفة لحل المشاكل المهنية
 - ٢-٢-٤ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
 - ٢-٢-٥ تقييم المخاطر في الممارسات المهنية في مجال التخصص
 - ٢-٢-٢ التخطيط لتطوير الاداء في مجال التخصص
 - ٢-٢-٧ اتخاذ القرارات المهنية في سياقات مهنية متنوعة
 - ٢-٣ المهارات المهنية
 - بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:
 - ٢-٣-٢ اتقان المهارات المهنية الاساسية والحديثة في مجال التخصص
 - ٢-٣-٢ كتابة وتقييم التقارير المهنية
 - ٢-٣-٢ تقييم الطرق والادوات القائمة في مجال التخصص

٢-٤ المهارات العامة والمنتقلة:





بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على:

٢-٤-١ التواصل الفعال بأنواعة المختلفة

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

٢-٤-٣ التقييم الذاتي وتحديد احتياجاته التعليمية

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

٢-٤-٥ وضع قواعد ومؤشرات تقييم اداء الاخارين

٢-٤-٢ العمل في فريق سياقات كهنية مختلفة

٢ ـ ٤ ـ ٧ ادارة الوقت بكفاءة

٢-٤-٨ التعلم الذاتي والمستمر

ملحق ۳:





مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

المعايير القياسية للدراسات العليا الصادرة عن الهيئة القومية لضمان الجودة	المعايير الأكاديمية لبرنامج ماجستير الأمراض الصدرية	
خريج برنامج الماجستير في أي تخصص يجب أن يكون قادرا على: ١-١ إجادة تطبيق أساسيات ومنهجيات البحث العلمي	On completion study Diploma of Chest Diseases programs must be able to graduate: 1-1 mastering the basics of the	ا - مواصفات الخريج
ومنهجيات البحث العلمي واستخدام أدواته المختلفة ٢-١ تطبيق المنهج التحليلي واستخدامه في مجال التخصص	application and methodologies of scientific research and the use of his tools in the diagnosis and treatment of respiratory diseases	
 ٣-١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في مماسته المهنية 	1-2 application of the analytical method and use different tactics in the diagnosis of thoracic diseases	
 ۱-٤ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة فى مجال التخصص 	1-3 specialized in the diagnosis and treatment of respiratory diseases and integrate various medical science knowledge applications	
 ١-٥ تحديد المشكلات المهنية وإيجاد حلول لها ١-١ إتقان نطاق مناسب من المهارات 	1-4 show awareness of respiratory disease and the ongoing development of plans for treatment	
المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية	1-5 determine respiratory diseases that are related to the environment or to the various professions and find appropriate treatment her	
 ١-٧ التوصل بفاعلية والقدرة على قيادة فرق العمل ١-٨ اتخاذ القرار في سياقات مهنية 	1-6 mastering specific skills thoracic diseases and the use of various technologies in the diagnosis and	
مختلفة ١-٩ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ	treatment 1.7 Ability to work within a team to meet the needs of patients perform my	
عليها المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية	bed and high-quality, ethical and responsible individual taken into account within the family and society 1-8 the ability to take the appropriate decision to resolve the acute respiratory	





والاقليمية ۱۱-۱ التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة ۱۲-۱ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر	problems in normal circumstances and disaster 1-9 to use available resources of devices and medical supplies to bring the greatest benefit to serve patients and the need to maintain them 1-10 show awareness in promoting public health and community development and environmental conservation in light of regional and global variables 1-11 the ability to follow the rules and ethics of the medical profession 1-12 capacity for self-development academically and professionally and to maintain CME 1-13 show the ability to craft required in dealing with patients, colleagues and the rest of the other disciplines	
	1-14 continuous self-assessments	
بأنتهاء دراسة برنامج الماجيستير يجب ان يكون الخريج على فهم ودراية بكل من: ١-١-١ النظريات والاساسيات المتعلقة بمجال التعلم وكذا في ١-١-٢ التأثير المتبادل بين الممارسة المهنية وانعكاسها على ١-١-٣ التطورات العلمية في مجال التخصص ١-١-٤ المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص التخصص التخصص التخصص التخصص التخصص التخصص الممارسة المهنية في مجال ٢-١-٥ مبادئ واساسيات الجودة في المعارسة المهنية في مجال ١-١-٦ اساسيات واخلاقيات البحث العلمي	On completion study Diploma of Chest Diseases programs must be able to graduate grasping both: 2.1.1 Grasping the basics and theories and knowledge on thoracic diseases and basic medical sciences related diseases pectoris 2.1.2 The effect of the exercise of Chest Diseases to preserve the environment of infectious and occupational diseases, environmental pollution 2.1.3 Ribs on specialist periodicals in respiratory diseases and diseases related to scientific research 2.1.4 Respect for academic and scientific, ethical and legal principles in the field of health care	۲- المعابير القياسية العامة ۲.۱ المعرفة و الفهم





	2.1.5 Principles and the basics of quality in the diagnosis and treatment of respiratory diseases 2.1.6 The ability to follow the basics and ethics of scientific research and its applications 2.1.7 Main principles in 'emergency medicine diagnosis and treatment of respiratory life-threatening diseases, including drug therapy with BS and non-intensive care with follow-up and rehabilitation in various stages of life 2.1.8 Population Health and demography health needs of the population and life statistics concepts 2.1.9 Main principles of infection and immunity and concepts infection control and patient safety	
بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على: مجال التخصص والقياس عليها لحل المشاكل المتخصصة مع عدم توافر بعض المعطيات ٢-٢-٣ الربط بين المعارف المختلفة لحل المشاكل المهنية ٢-٢-٤ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة ٢-٢-٥ تقييم المخاطر في الممارسات المهنية في مجال التخصص التخصص ٢-٢-٦ التخطيط لتطوير الاداء في مجال التخصص ٢-٢-١ التخاذ القرارات المهنية في سياقات مهنية متنوعة	On completion study Diploma of Chest Diseases programs must be able to graduate grasping both: 2.2.1 Data analysis and evaluation of disease history and clinical examination and selection of appropriate medical tests in order to put the right diagnosis and the development of appropriate treatment plan 2.2.2 Diagnosis of various thoracic diseases in the absence is reported on the potential for it 2.2.3 Linking various medical sciences to find the accurate diagnosis of respiratory diseases 2.2.4 Conducting a research study or writing a systematic scientific study on the problem of Chest Diseases problems contribute to the diagnosis or treatment 2.2.5 Improving performance planning	 ٢- المعابير القياسية العامة ٢- ٢ المهارات الذهنية





	to develop in the field of Chest Diseases	
	2.2.6 Risk practice Chest Diseases of infection and contact with the patient and take action to protect the graduate of the occupational diseases evaluation procedures	
	2.2.7 Make decisions for dealing with patient respiratory diseases in the light of the symptoms and tests available	
	2.2.8 Ensure cost-effectiveness in all remedial measures	
	2.2.9 Refer patients to obtain the appropriate specialist advice	
بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على: ٢-٣-١ اتقان المهارات المهنية الاساسية والحديثة في مجال التخصص ٢-٣-٢ كتابة وتقييم التقارير المهنية ٢-٣-٣ تقييم الطرق والادوات القائمة في مجال التخصص	On completion study Diploma of Chest Diseases programs must be able to graduate grasping both: 2.3.1 Master the basic and modern skills in the field of thoracic diseases 2.3.2 Writing and evaluating various reports 2.3.3 Methods and tools to assess the list in the field of thoracic diseases 2.3.4 Identify cases to be referred to a higher level of care with the judgment on the possibility of self-disposition or not 2.3.5 a medical survey of the important cases of health	1- المعابير القياسية العامة العامة ٢.٣
بانتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على: ٢-٤-١ التواصل الفعال بأنواعة المختلفة ٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية	On completion study Diploma of Chest Diseases programs must be able to graduate grasping both: 2.4.1 Ability to communicate, coordinate and cooperate with the medical team and patients and their	 ٢- المعايير القياسية العامة ٢ المهارات العامة و المنتقلة





٢-٤-٢ التقييم الذاتى وتحديد احتياجاته التعليمية

٢-٤-٤ استخدام المصادر المختلفة
 لحصول على المعلومات والمعارف
 ٢-٤-٥ وضع قواعد ومؤشرات تقييم

اداء الاخارين ٢-٤-٢ العمل في فريق سياقات كهنية مختلفة

٢ ـ ٤ ـ ٧ ادارة الوقت بكفاءة

٢-٤-٨ التعلم الذاتي والمستمر

families and official bodies

2.4.2 The use of information technology in the diagnosis of respiratory diseases and to collect data on patients and archive files and save

2.4.3 The ability to self-assessment of medical practice

2.4.4 The use of different sources of information and knowledge about the disease Chest

2.4.5 Rules and indicators evaluating the performance of others

2.4.6 Work with a group within multiteam specialists

2.4.7 Learn management skills, including time management

Y. £. Aself-learning ability and ability to ensure continuous medical learning

ملحق 4: مصفو فة مضاهاة المعايير الأكاديمية للبرنامج و أهداف و نواتج تعلم البرنامج



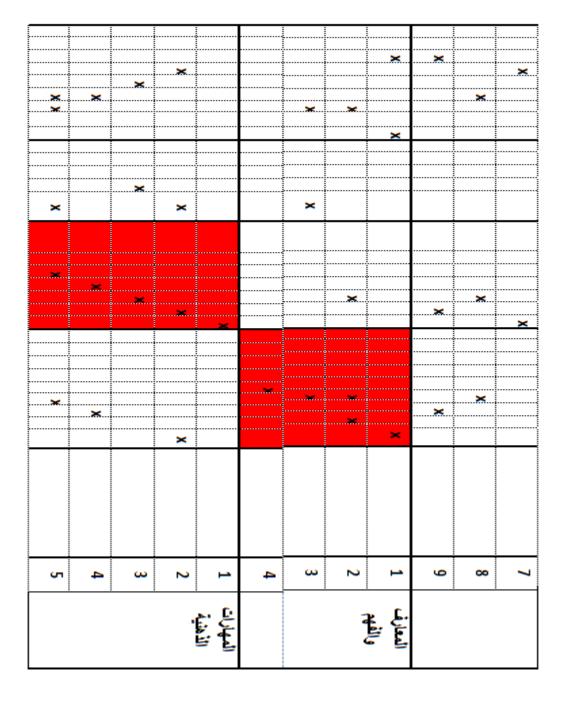


مصفوفة مضاهاه المعايير الأكاديمية العامة والأهداف العامة ونواتج تعلم البرنامج لطلبة الماجستير

اهداف البرنامج الدوارات الدوا			_	Ś	مواصفات الذيج				المعايين الأكاديمية العامة
اهداف ونواتج تعلم البرنامي الدهنية التعلق المهارات الدهنية المهارات ال	5	4	3	2	1				Ĭ,
المعارف ونواتج تعلم البرنامج المهارات الأهنيا المهارات المهارات الأهنيا المهارات المهارات الأهنيا المهارات المهارات المهارات الأهنيا المهارات المهارا								اهداف البرنامج	
اهداف ونواتج تعلم البرنامج المعارف والفهارات الذهنية المعارف والفهارات الذهنية المعارف ونواتج التعلم البرنامج المعارف ونواتج التعلم البرنامج المعارف ونواتج التعلم البرنامج المعارف ونواتج التعلم البرنامج الفهارات الذهنية المعارف ونواتج التعلم البرنامج المعارف ونواتج التعلم البرنامج المعارف ونواتج المعارف				×	×	2-1-2. 2-1-1			
المهارات الذهنية المهارات المهارات الذهنية المهارات			×			213.			
المهارات الذهنية المهارات المهارات الذهنية المهارات	×	<u> </u> 					Ĕ		
المهارات الذهنية المهارات المهارات الذهنية المهارات الذهنية المهارات الذهنية المهارات الذهنية المهارات المهار		 				6.1.2.	<u>.</u> .		
المهارات الذهنية المهارات المهارات الذهنية المهارات الذهنية المهارات الذهنية المهارات الذهنية المهارات المهار		<u> </u> 					نظ		8
2-4-3 2-4-2 X 2-4-1 2-3-5 2-3-4 2-3-3 2-3-2 2-3-1 9-2-2							2		<u>.</u>
2-4-3 2-4-2 X 2-4-1 2-3-5 2-3-4 2-3-3 2-3-2 2-3-1 9-2-2		×	×						٤.
2-4-3 2-4-2 × 2-4-1 × 2-3-5 2-3-4 × 2-3-3 2-3-2 2-3-1 9-2-2						2-2-3			<u> </u>
2-4-3 2-4-2 × 2-4-1 2-3-5 2-3-4 2-3-3 2-3-2 2-3-1 9-2-2	*	å		×		2a2a5 2a2a6	E.		
2-4-3 2-4-2 × 2-4-1 2-3-5 2-3-4 2-3-3 2-3-2 2-3-1 9-2-2							Ē	Æ.	7
2-4-3 2-4-2 × 2-4-1 2-3-5 2-3-4 2-3-3 2-3-2 2-3-1 9-2-2							ē.	7	Æ.
2-4-3 2-4-2 × 2-4-1 2-3-5 2-3-4 2-3-3 2-3-2 2-3-1 9-2-2		ļ				822	<u>.</u>	딸	ক্ট্ৰ
2-4-3 2-4-2 X 2-4-1 X 2-3-5 2-3-4 X 2-3-2 X 2-3-2	~						بَرُّ	7	
2-4-3 2-4-2 × 2-4-1		 !							
2-4-3 2-4-2 × 2-4-1		×					E 45		
2-4-3 2-4-2 × 2-4-1		ļ				2-3-4.	4 €		
2-4-3 2-4-2		ļ					جُ ت		
2-4-3					×				
2-4-8 2-4-7 2-4-6 × 2-4-5 × 2-4-4									
2-4-8 2-4-7 2-4-5 2-4-5		×					드		
2-4-8 2-4-7 2-4-5	×						₹.		
2-4-8 2-4-7		•					ے		
2:4:8							č		
						2.4.8	<u> </u>		



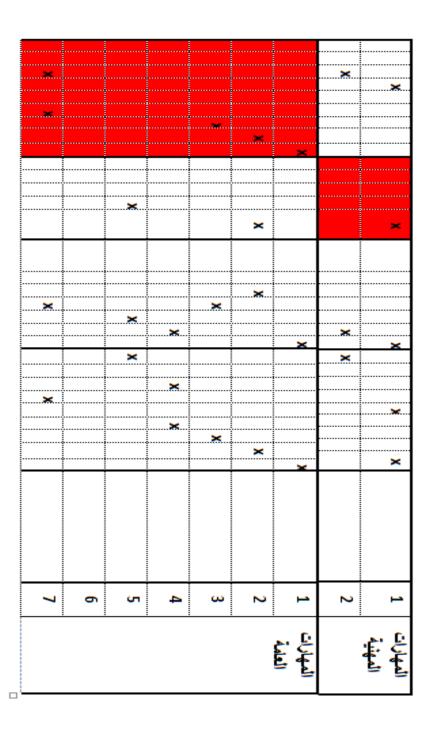




Page 2 of 3







ملحق (5) مصفوفة المعارف والمهارات للبرنامج الدراسى

Page **23** of **82**





الرسالة		× 3	× 2	× 2		ļ	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		× >		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		ļ			-	3 3 3 3 3 3 3 3	2	>					
F	SOUCHO	×	· ×	· ×					·						× ×				· · · · ·			9		
مقتر يوادهن	CHESSOS	×	×			†		<u>×</u>		×	†	†			×				×		×		•	
مثاراته هن	0483604	×	*							*					×		∺.		×					×
فارمشان هن	OHESEOS	×				<u>×</u>					×				×				×			-		
فعتواوجي	0483206	×						<u>×</u>							×				×					
شريح	CH E 161	×		×			×	<u>×</u>		×					×				×					
فيبناء هيرية	CHEMOL	×		×				×.			×				×				×			×		
فسيرارجي	CHINO	×	××					 			· · · · · · · · · · · · · · · · · · ·	×				×			×	×				
		1 1 2		A. 3-2.			0.3-2	 	3.3.2				0.3.7					5.3.2	5-4-2	242	342	542		722 642
غة : غام غة :			<u>E</u> .	4	T.	المعارف والفهم	3		1	Ş.	المهارات الذهنيه	Ĕ.	ď.	_	-	E t	المهارات المهانية	. fo		-	4			لمهارات العا





ملحق (٦)

توصيف المقررات

Program courses

First part	Code
Physiology	CHES601
Medical Biochemistry	
Anatomy & embryology	CHES602
Histology	
Pharmacology	CHES7.3
Pathology	CHES7·4
Microbiology	CHES7.5
Community medicine	CHES7.6
Internal medicine	CHESTON
Medical Statistics	UNI600
Second part	
1-Chest Medicine	CHESTON





Benha University.

Faculty of Medicine.

Department of physiology.

Course Specifications

Course title: PHYSIOLOGY FOR Master chest disease ...

Code: CHES601

Academic Year $(201^{\circ} - 201^{\circ})$

Department offering the course: PHYSIOLOGY Master chest disease (2017 – 2012)

• Date of specification approval: department council No., date.

Faculty council No., date .../.../2017

Date of chest department approval 05/09/2013

Date of specification approval: faculty council

number: date: 16/10/2013

A- Basic Information

- Allocated marks: 150 marks.
- Course duration: 15 weeks of teaching.

Teaching hours: ___1.5 credit hour .

• <u>credit</u> hours / week = <u>22.5 hrs</u> total teaching hours.

B- Professional Information

1 - Overall Aims of Course

- **1.1**. Physiology course aims at approaching to the detailed knowledge of human physiology.
- Intended learning outcomes of course (ILOs)

2.1- Knowledge and understanding:

By the end of this course, students should be able to:

- 2.1- List according to priority the main functions of systems, organs and cells.
- 2.2- Explain and describe the basic and detailed physiological processes in correct medical terms and in correct order.
- 2.3- Memorize important physiological definitions and laws.
- 2.4-understand the different mechanisms of homeostasis and how to use it in applied physiology.

المالية

توصيف برنامج ماجستير الامراض الصدرية



2.2- Intellectual skills:

By the end of this course, students should be able to:

- 2.2.1- Identify deviations from the normal physiology and its effects.
- 2.2.2- Translate the consequences of physiological disorders into clinical manifestations and vice versa (interpret clinical manifestations into physiological data).
- 2.2.3- Illustrate physiological information in the form of simplified diagrams with complete data on it.
- 2.2.4- Interconnect different branches of physiology to each other and to other branches of medicine.
- 2.2.5- Analyze any physiological curve.
- 2.2.6- Compare homologous physiological structures and processes.
- 2.2.7- The ability to search, analyze and summarize updated physiological information.

2.3- Professional and practical skills:

By the end of this course, students should be able to:

- 2.3.1- Perform efficiently the appropriate steps and procedures in measuring pulse, respiratory rate and arterial blood pressure.
- 2.3.2- Perform simple experimental blood tests and the use of this data in problem solving.
- 2.3.3- Read a normal ECG paper.
- 2.3.4- interpret different laboratory tests as isolated perfused heart
- 2.3.5-asses pulmonary function tests

2.4.- General and transferable skills

By the end of this course, students should be able to:

- 2.4.1- show discipline and appropriate manners when working in a lab and cooperation with his colleges and respect towards general property and how to handle learning facilities with care.
- 2.4.2- deal properly and cautiously in a lab.
- 2.4.3- Use the sources of biomedical information to remain current with the advances in knowledge & practice.
- 2.4.4-participate in community development and in drawing up and implementing development policies and plans.
- 2.4.5- Perform tests showing the molecular, biochemical, and cellular mechanisms that are important in maintaining the body's homeostasis.
- 2.4.6- Demonstrate the macroscopic and microscopic criteria of the altered structures and functions of the body and its major organ systems that are seen in various diseases and conditions.
- 2.4.7- Perform routine technical procedures; diagnostic and therapeutic (including life support).

<u>3- Physiology course for postgraduates (chest disease)</u>

Mechanics of respiration

Pulmdnauy ventilation and factors affecting it
Gas exchange through the respiratory membrane.

العالم المعالم المعالم

توصيف برنامج ماجستير الامراض الصدرية



Pulmonary function tests

Regulation of respiration

Hypoxia — cyanosis — dyspnea.

Pneunlothorax.

Abnormal pattern of breathing

C.O.P

Arterial blood pressure and its regulation

E.C.G

Pulmonary circulation

Coronary circulation

Hemorrhage and shock

Microcirculation

Edema

Venous circulation

Acid — base balance

Water and electrol^yte balance

Anemias

Sympathetic and parasympathetic supply to heart and lung.

Pyramidal and extrapyramidal tract

Fever

Suprarenal cortical hormone

Insulin

Thyroid hormone

4- Teaching and learning methods:

4.1.methods used

4.1-1.General lectures

4.1.2.-seminares

4,1.3-confrences

4-2-teaching plan: Faculty bulaw

5- Student assessment methods:

5-a) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge and understanding & intellectual
	skills:
	From 2.a.12.a.4. and b.12.b.5.
Oral examination	To assess knowledge and understanding, intellectual





skills & General & transferable skills
2.a.12.a.4., 2.b.12.b., $2.d.12.d.$ 7

5-b) <u>TIME SCHEDULE</u>:

Exam	Week
5- Final exam	at end of second term (May-June)

5-c-Assessment time schedule

Assessment 1... Written and oral

5-d-weighting system (formative or summative).

D) Weighting System:

Examination	Marks allocated	% of Total Marks
2- Final exam:		
a- Written	75	50%
b- Oral	75	50%
Total	150	100%

⁻ Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.

FORMATIVE ASSESSMENT:

• Student knows his marks after the Formative exams.

5-E) Examination description:

1. Examination	2. Type	3. Description
4. Final	7. 1. Written	9. written paper composed of short essay-type questions, long
Examination	8.	assay.
5.	10. 3. Oral	11. One oral examination station with 2 staff members (10-15
6.		minutes: 4-5 questions)

6- List of references

6.1- Course notes

Theoretical and practical books are available from faculty bookshops.

6.2- Essential books (text books)

Poul-Erik Paulev(2000): Medical Physiology And Pathophysiology

Essentials and clinical problems.

6.3- Recommended books

Poul-Erik Paulev (2002):): Medical Physiology Textbook

6.3- Periodicals, Web sites, ... etc

الملاح

توصيف برنامج ماجستير الامراض الصدرية



www.jap.physiology.org.

www.physiologyonline.physiology.org/cgi/content

7- Facilities required for teaching and learning

12. Data show.

13. Overhead projector.

14. postgraduate laboratories with their equipments.

Course coordinator: Prof. Alaa Elteleis **Head of Department:** Prof. Alaa Elteleis

Date: 05/09/2013

Benha University Faculty of Medicine

Department of Histology & Cell Biology

Course Specifications

Course title: Histology & Cell Biology

(Code): CHES 602

Academic Year (2013 – 2014)

• Department offering the course: Histology & Cell Biology

academic year of Master program of first part chest: (2014 - 2013)

Date of specification approval: (2013 - 2014)

A) Basic Information:

• Allocated marks: <u>50</u>marks

• Course duration: 14 weeks of teaching

• **Teaching hours:** 1_hours/week



B) Professional Information:

1- Overall Aim of the Course:

- 1.1. Advanced scientific knowledge essential to practice Histology & Cell Biology dealing with chest.
- 1.2. Advanced scientific knowledge essential l for establishing & maintaining good researchers.
- 1.3. Advanced scientific knowledge essential for following the rules of medical ethics.
- 1.4. Diagnostic, problem solving and decision making as well as communication skills necessary for proper evaluation and management of health problems &researches.
- 1.5. Appropriate ethical and professional education necessary for demonstrating appropriate attitudes with students and colleagues.
 - 1.6. Lifelong learning competencies necessary for continuous professional development.
 - 1.7. Research education as related to medical practice &more advanced scientific researches.
 - 1.8. Advanced administrative skills necessary for delivery of research service.

2- Intended Learning Outcomes (ILOs):

2.1. Knowledge and understanding:

By the end of the course, students should be able to:

- 2.1.1. Describe the normal structure and function of the human body cells at the level of its organ & system on the molecular level.
- 2.1.2. Describe the normal structure and function of the human body cells and mind at the molecular, biochemical levels (including the principles of genetics).
- 2.1.3. Describe the normal growth and development of the human body cells & its impact on cellular function, molecular signaling.
 - 2.1. 4. Recognize the cell signaling & altered cell behavior.
 - 2.1.5. Recognize the altered development, growth, structure and function of the body and mind that will be associated with common clinical conditions.

2.2.Intellectual skills:

By the end of the course, students should be able to:

- 2.2.1. Combine the technical and investigational database to be proficient in histological problem solving.
 - 2.2.2. Generate a list of initial technical hypotheses for each problem.
- 2.2.3 Analyzes all sources of information to Interpret and evaluate the tissue samples

2.3. Professional and practical skills:

By the end of the course, students should be able to:



- 2.3..1. Adopt an empathic and holistic approach to the researches and their problems
- **2.3** .2 Demonstrate Respect for right researches' and involve them and /or their in management decisions.
- **2.3.3** Demonstrate the more recent in researches in stem cells.
- **2.3** ..4. Respect the role and the contributions of other health care professionals regardless their degrees or rank (top management, subordinate or colleague)..
- **2.3** ..5. Complies with the requirements of the national code of ethics issued by the Egyptian Medical Syndicate.

(لائحة آداب المهنة الصادرة من نقابة الأطباء)

- **2.3**..6. Conduct counseling sessions for more advances in researches.
- **2.3**..7. Reflect critically on their own performance and that of others, to recognize personal limitations regarding skills and knowledge to refer their student's facility at the appropriate stage.

2.4. General and transferable skills:

By the end of the course, students should be able to:

- **2.4.** 1. Establish life-long self-learning required for continuous professional development.
- **2.4.**.2. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.
- **2.4.** 3. Retrieve, manage, and manipulate information by all means, including electronic means.
- **2.4.** A. Present information clearly in written, electronic and oral forms.
- **2.4.**.5. Establish effective interpersonal relationship to Communicate ideas and arguments .
- **2.4.**.6. Work effectively as a member or a leader of an interdisciplinary team .
- **2.4.**.7. Apply the principles of statistical methods for collection,

3- Course contents:

Cytology

- 1-LM&EM picture ,function and molecular biology of cytoplasmic organelles:
- -membranous (cell membrane, rough endoplasmic reticulum, smooth endoplasmic reticulum, Golgi apparatus, mitochondria, lysosomes, peroxisomes, proteosomes and annulate lamellae)
- -non membranous organelles (ribosomes, microtubules, centrioles, cilia, flagella *and* microfilaments)

2-inclusions

3-nucleus: structure by LM&EM, function

4-DNA

5-types of RNA

6-physiological cell death





V-Epithelial tissue:

- 1-Properties of epithelium.
- 2-Types of epithelium:(covering -glandular -neuro epithelium & myoepithelium)
- 3-Examples and sites of each type.
- 4-Functional importance.
- 5-Modification of epithelial cell surfaces.

VI- Connective tissue

- 1-general character of connective tissue proper.
- 2-constituents of CT (ground substance, fibers, cells).
- 3-structure, types and staining properties of CT fibers.
- 4-types of connective tissue proper and site of each:
- 1. loose (areolar) connective tissue.
- 2. white fibrous or tendinous connective tissue.
- 3. yellow elastic connective tissue
- 4. adipose connective tissue
- 5. reticular connective tissue
- 6. mucoid (myxomatous) connective tissue

VII- Cartilage:

- 1-histological features of cartilage cells, fibers & matrix.
- 2-Types of cartilage and their specific histological features.
- a-hyaline cartilage.
- b. yellow elastic cartilage.
- c. white fibro-cartilage.

VIII-Bone

- 1-General microscopic features of bone and how it can be studied histologically
- 2-Types (compact & spongy bone): structure, sites, and function.
- 3-Bone cells: structure (LM&EM) and functions.
- 4-Intercellular substance of bone.
- 5-The development and ossification

المالية المالية

توصيف برنامج ماجستير الامراض الصدرية



IX-Blood

- 1-red blood corpuscles (histological structure &function).
- 2- histological structure & function of granular leucocytes (neutrophil, eosinophil, basophils).
- 3- histological structure &function of non granular leucocytes (lymphocytes & monocytes).
- 4-differential leucocytic count
- 5-blood platelets (histological structure &function).
- 6-haemopoiesis.
- 7-myeloid tissue(inactive yellow bone marrow& active red bone marrow).

X-Muscle tissue

- 1-General character and types.
- 2-skeletal muscle:
- -general features &types of skeletal muscle fibers .
- -organization of skeletal muscle.
- -functional ultrastructure of myofibrils& sarcomere.
- -molecular structure of actin and myosin
- -muscle contraction
- -innervation of skeletal muscle
- -cardiac muscle
- -general structure and functional relations.
- -Intercalated discs
- -Conducting system of the heart
- -moderator band
- 3-smooth muscle:
- general structure, muscle contraction& innervation.
- 4- comparative study of three types of muscles.
- 5- growth and regenerative ability of muscular tissue.

XI-Nervous tissue

- 1-Structure of neuron (LM&EM) cell body, axon, ,dendrites
- 2- types of nerve cells
- 3-types and structure of nerve fibers
- 4-organization of nerve fibers

nylination of CNS&PNS

- 6-nerve ganglia (types &structure).
- 7-synapses(structure and types)
- 8-degeneration and regeneration of neurons
- 9-stain used to study nervous tissue including those of degeneration
- 10-Neuroglia structure and their functions
- 11-Types and structure of nerve endings (receptors and effector)

I-CARDIOVASCULAR SYSTEM





- 1-general structure of the wall of blood vessels
- 2-Arteries: Large , Medium-Sized& small (histological structure &function)
- 3-Veins ;Large , Medium-Sized& small(histological structure &function)
- 4-histological structure of specialized arteries &veins.
- 5-arteriovenous connections:
- a-Capillaries histological structure and function
- b- Sinusoids
- c-arteriovenous anastomosis
- 6-Heart; histological structure of epicardium ,myocardium ,endocardium and valves

VIII- THE ENDOCRINE SYSTEM

- 1-Pituitary Gland
- 2-Thyroid Gland
- 3-Parathyroid Glands
- 4-Adrenal (Suprarenal) Glands
- 5- pineal body
- 6-islet's of pancreas
- 7-difuse neuroendocrine system

THE IMMUNE SYSTEM AND LYMPHOID ORGANS

- 1-structure of lymph vessels
- 2-distribution and structure of lymphoid tissue.
- 3-lymphatic organs:
- a- Lymph Nodes (histological structure &function)
- b-Spleen(histological structure &function& microcirculation)
- c-Tonsils(histological structure &function)
- d-Thymus(histological structure &function)
- e-Mucosal immune system (histological structure &function)
- 4-Mononuclear phagocytes
- 5-Cells involved in the immune system

Antigen presenting cell





THE RESPIRATORY SYSTEM

respiratory system (histological structure and function) nasal cavity, nasal conchae, olfactory area, paranasal sinuses, nasopharynx, pharyngeal tonsils, larynx, epiglottis, trachea, bronchial tree, bronchioles)

- 2- respiratory portion respiratory (histological structure and function) bronhioles, alveolar ducts, alveolar sacs, alveola interalveolar wall)
- 3-structure of pleura
- 4-structure of foetal lung
- 5-Non respiratory function of lung
- 6-Bronchus associated lymphoid tissue

4- Teaching and learning methods:

METHODS USED:

- 4.1.Lectures
- 4.2. Small group discussions: Museum specimens, demonstration (slides photographs and video films), models and case study.
- 4.3. Tutorials.
- 4.4.Seminars.

TEACHING PLAN:

Lectures: 1 h /week, Time from 10.00 am to 12.00 pm

Time plan:

Item	Time schedule
Lectures	<u>1 h</u> /week;
Total	1/week

- 5- Students Assessment methods:
- **5-A) ATTENDANCE CRITERIA**: Faculty by laws

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge acquisition
Oral examination	To assess understanding and stability of knowledge given,
	attitude and presentation.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1- written examination	25	50%
2- oral examination	25	50%
Total	50	100%





FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- written	Objectively structured questions
examination	
2- Oral examination	e.g. How many sessions

6- List of references:

6.1. Basic materials:

- e.g. Department book:
- 6.1.1. Histology &Cell Biology department book

6.2. Essential books (text books):

- 6.2.1. Junqueira Basic Histology.
- 6.2.2. Gartner & Hiatt Atlas Histology
- 6.2.3. Wheater's functional Histology

6.3. Recommended books:

- 6.3.1. Junqueira Basic Histology.
- 6.3.2. Gartner & Hiatt Atlas Histology
- 6.3.3. Wheater's functional Histology
- 6.3.4. Mechiel ross text of histology

6.4. Periodicals, Web sites, etc:

- 6.4.1.http://www.medscape.com.
- 6.4.2.http://www.pubmed.com.
- 6.4.3.http://Master.emedicine.com/maint/cme.asp.
- 6.4.4.http://www.science direct.com.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Lecture halls: 2
- Museum hall:6th floor
- Department lab

Course coordinator: Prof Dr. Mohamed Magdi Zaky

Head of Department: Prof Dr Mohamed Magdi Zaky

Date of approval 05/09/2013





Benha University Faculty of Medicine Department of Clinical Pharmacology

Course Specification

Course title: Chest diseases Pharmacology

(Code): CHES 603

Academic Year (2013 – 2014)

• Department offering the course: Clinical Pharmacology Department

• Academic year of MSc. program: 2013_2014.

- Major or minor elements of the program: Major.
- Academic level: First part.
- Date of specification approval:

- Department council No. (168) , date 3 /9 / 2013

Chest department council : 05/09/2013 .

- Faculty council , date 19 / 10 / 2013

A) <u>Basic Information</u>:

• **Allocated marks:** 60marks

• Course duration: 24 weeks of teaching

• **Teaching hours:** lectures:.........1 hours/week = 24 total teaching hours

B) Professional Information:

1- Overall Aim of the Course:

المالية

توصيف برنامج ماجستير الامراض الصدرية



• To provide the advanced knowledge about commonly used groups of drugs affecting different body systems and their implications in therapy of diseases and health promotion.

2- <u>Intended Learning Outcomes (ILOs)</u>:

2.1 Knowledge and understanding:

By the end of the course, students should be able to:

2.1- Knowledge and understanding:

- 2.1.1- Discuss the pharmacokinetic, pharmacodynamic and pharmacotherpeutic properties of different groups of drugs affecting body systems.
- 2.1.2- Discuss the adverse and toxic effects, and their management of commonly used groups interactions.
- 2.1.4- Define clinically relevant age, sex and genetic related variations that affect response to drugs.
- 2.1.5- Discuss the pathophysiology of diseases and explain the rational basis for the use of drugs.
- 2.1.6- Discuss the impact of preventive pharmacology in promoting health and prevent illness.

2.5. Intellectual Skills:

By the end of the course, students should be able to:

- 2.5.1- interpret accurately drug's dosage, bioavailability, plasma half life and volume of distribution in different patient populations
- 2.5.2- reviews a comprehensive drug history of the patient.
- 2.5.3- Interpret drug adverse reactions.

2.2. Practical and Clinical Skills

By the end of the course, students should be able to:

- 2.2.1- Perform with precision different technique of drug administration.
- 2.2.2- Design rational therapeutic strategies for both acute and chronic conditions that take into account the various variables that influence these strategies. Choose the proper drug(s) for the proper clinical situation in proper dosage.

2.6. General and transferable Skills:

By the end of the course, students should be able to:

- 2.6.1- Demonstrate respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs and use language appropriate to the patient's culture.
- 2.6.2- Provide appropriate basic drug education to the patient and his family.
- 2.6.3- Communicate effectively with other health care professionals to maximize patient benefits and minimize the risk of errors.





2.6.4- Understand the importance of life-long self-learning and show a strong commandment to it.

3- Course contents:

	Course	Code	Credit hours
First part	Clinical Pharmacology	CHES 603	
F	Respiratory system Autacoids		- 5 hours
	Chemotherapy		- 2 hours - 3 hours
	CVS		- 3 hours
	Hormones		- 3 hours
	CNS Autonomic		- 3 hours
	General		- 2 hours
			- 3 hours
Total			24 hours

4- Teaching and learning methods:

METHODS USED:

- 4.1 Lectures
- 4.2- Practical modules

TEACHING PLAN:

Item	Time schedule
Lectures	-1time/ week
	-35 min. each
Practical	
Total	

5- Students Assessment methods:

5.A) Attendance Criteria:

1. Practical attendance.





2. Log book.

5.B) Assessment Tools:

Tool	Purpose (ILOS)
Written examination	To assess knowledge acquisition, including MCQs and problem solving.
Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.

5.C) TIME SCHEDULE:

Exam	Week		
1- First part exam	After 6 months from registration for MSc. degree		

5-D) Weighting system:

Written exams. 50 %

Oral Examination 40 %

Semester Work 10 %

Other types of Assessment

Total 100%

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

First part:

Assessment(1): Written exams. (1hr)

Assessment (2): Oral examination.

6- List of references:

6.1 Course Notes





Handouts updated administered by staff members

6.2 Essential Books (Text Books):

David E. Golan; Armen H. Tashjian; Ehrin J. and Armstrong et al.(2005): Principles of pharmacology: the pathophysiologic basis of drug [et al.], Philadelphia: Lippincott Williams & Wilkins.

6.3- Recommended Books:

GOODMAN AND OILMAN(2005): THE PHARMACOLOGICAL BASIS OF THERAPEUTICS 11th edition.

6.4- web Sites:

www.micromediex.co

7- Facilities required for teaching and learning:

- Lecture rooms:
- Section rooms
- Audio-visual teaching equipments (Computer, Projector, Videoetc)
- Models and mannequins
- Video tapes, scientific pictures archives.

Course Coordinator: Prof. Dr. Mohaned Mohammed

Head of Department: Prof. Dr. Mohaned Mohammed Ibrahem Shehab





Benha University

Faculty of Medicine

Department of pathology

Course Specification

		•		
	title: Pathology for : Maste	er degree of Chest		
` ′	(CHES6 04)			
	nic Year (2013 – 2014)	00		
	Department	offering	the	course:
••	pathology	• • • • • • • • • • • • • • • • • • • •	•••••	
• A	Academic year of Master	program:2013-2014	•••••	
• A	Academic level:Master.			
• D	Date of specification approve	al:		
	Department council no			
	±	date 05/09/201		
	Faculty council no	, date16-10-20	013	
	ic Information: Allocated marks:	100 marks		
• (Course duration: 25	_ weeks of teaching		
• T	Teaching hours: 1.2	hours/week = <u>30</u>	total teaching hours	}
B) Prof	fessional Information	•		
	all Aim of the Course:			
T	The overall goals of the cou	irse are to:		
1.1. Good	l application of basic patholo	gical knowledge essential	for the practice of chest me	edicine
1.2. Provi	iding basic and specialized s tions.	ervices in relation with bi	opsy diagnosis in the practi	ice of medicine and
1.3. Appl	ication of special knowledge	& its integration with other	ers that have relation with th	ne special practice
1.4. Awai	reness of the running problem	ns as early tumor detection	and diagnosis of respirator	y system
1.5. Diag	nosis of practical problems a	as cases study and clinical	assessments	
1.6. Diag	nosis, problem solving and de	ecision making skills neces	ssary for proper evaluation a	and management.
1.7. devel	lopment of recent tools & wa	ys essential for medical pr	actice.	





- 1.8. Awareness of his role in the progress of society and govern the environment in the light of international & local changes.
- 1.9. honesty and respect the practical rules.
- 1.10. Lifelong learning competencies necessary for continuous professional development.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

By the end of the course, students should be able to:

- 2.a.1. describe the dissection of respiratory biopsies.
- 2.a.2 define the clinical manifestations and differential diagnosis of common respiratory pathological cases.
- 2.a.3. list the scientific basis and interpretation of various diagnostic modalities essential for respiratory system medical practice .
- 2.a.4. Identify the principles that govern ethical decision making in clinical practice as well as the pathological aspect of medical malpractice.
- 2.a.5. Identify ethics of medical research.
- 2.a.6. Identify basic knowledge & theories needed to support literature retrieval and further research capabilities.
- 2.a.7. identify the importance of life-long self-learning required for continuous professional development.

2.b. Intellectual Skills:

By the end of the course, students should be able to:

- 2.b.1. solve problem and make decision skills necessary for proper evaluation and management.
- 2.b.2. Evaluate the risky problems that could be met during taking biopsies.
- 2.b.3. analyze the clinical and investigational database
- 2.b.4. interpret the clinical and investigational database to be proficient in clinical problem solving.
- 2.b.5. Plane for performance development in his practice.
- 2.b.6. Select the most appropriate and cost effective diagnostic procedures for each problem.
- 2.b.7. Formulate of research hypothesis & questions.

2.c. Practical and Clinical Skills:

By the end of the course, students should be able to:





- 2.c.1. examine, diagnose and evaluate of cases and investigation.
- 2.c.2. recognize and interpret all important pathological aspects for early cancer detection and assessment.
- 2.c.3. Perform the gross examination and able to describe the findings of different organs efficiently
- 2.c.4. diagnose and manage different respiratory cases.
- 2.c.5. understand reports like cancer assessment report, cytological report and immunohistochemical report.

2.d. General and transferable Skills:

By the end of the course, students should be able to:

- 2.d.1. Work effectively as a member or a leader of an interdisciplinary team and
- 2.d.2. Able to put rules & regularities for evaluation of performance of others.
- 2.d.3. Establish life-long self-learning required for continuous professional development
- 2.d.4. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.
- 2.d.5. Do self criticism. .
- 2.d.6. Retrieve, manage, and manipulate information by all means, including electronic means.

3- Course contents:

Subject	Lectures (hrs)	Tutorial / Small group	Practica I	Total (hrs)	% of Total	
---------	-------------------	------------------------	---------------	----------------	---------------	--





1- General Pathology	5	Xx	0	5	16.5
-Cell response to injury, Stem cells and repair, Tissue deposits	1	X	0	1	3.3
- Inflammation ,Granulomas ,Viral diseases	1	X	0	1	3.3
- Disturbance of growth Neoplasia, Developmental	1 1	X X	0	1	3.3 3.3
and genetic diseasesCirculatory disturbances,Radiation					
Basic imunopathology - Diagnostic methods in pathology	1	X	0	1	3.3





2-systemic pathology	10	Xx	15	25	84.5
- Pulmonary infections	1.5				
Chronic Obstructive	1.5	Xx	2	3.5	11.6
Pulmonary Diseases (COPD):					
- Circulatory disturbances	1	Xx	2	3.5	11.6
- Diffuse interstitial	1				
pulmonary disease		Xx	1.5	2.5	8.3
- Tumors of lung & pleura:	2	A. A.	1.5	2.5	0.5
Latest WHO classification	1	Xx	1.5	2.5	8.316.6
- Lymphoproliferative disorders	1	AA	1.5	2.3	10
of the lung	2			5	10
- Types of biopsies,	2		3	3	
Immunohistochemistry of the		Xx		5	
respiratory system & other			2		16.6
diagnostic methods.		Xx	3		
Cytopathology in chest disease		XX			
		1212			
Total	15	X	15	30	100





4- <u>Teaching and learning methods</u>:

ME	ETHODS USED:
1.	Modified Lectures
2.	Small group discussions
3.	Problem solving.
4.	Self learning
5.	Practical classes

- 6. **museum of pathology**
- 7. <u>histopathology slide lab</u>

<u>TEACHING PLAN:</u>			
Lectures: Division of students into	1	group	
1 /week, Time from	10	to <u>10:45</u>	
Tutorials:			
Practical classes			
Time plan:			

Item	Time schedule
Lectures	_1/week;
Practical	1 hours /week
Tutorial	hours / week
Total	2/week

5- Students Assessment methods:

5-A) **ATTENDANCE CRITERIA**: Faculty bylaws

5-B) Assessment Tools:

Tool	Purpose (ILOs)
Written examination	To assess knowledge, understanding & intellectual skills
Oral examination	To assess knowledge understanding & attitudes
Practical examination	To assess professional and practical skills

5-C) TIME SCHEDULE: Faculty bylaws

Exam	Week
1- First part:	After 25 weeks
- written	
- oral	





2- Second part:	-
- written	
- oral	
3- Thesis	-
4- Assignments & other activities	

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1- First part:	100	100
a- Written b- Practical c- Oral	50 25 25	50 25 25
2- Second part:		
a- Written b- Practical c- Oral		
3- Thesis		
4- Assignments & other activities		
Total		

[•] The minimum passing & Passing grades (Faculty bylaws).

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- First part:	MCQs, shorts assay, long essay, case reports, problem
a- Written b- Practical c- Oral	solving Identify jars, gallery of slides 2 sessions
2- Second part:	-
a- Written b- Practical c- Oral	
3- Thesis:	
6- Assignments & other	Assignments, practical books
activities	
Total	

6- <u>List of references</u>:



6.1- Course notes

- 1- Departmental books of General and Special histopathology, available in secretary office.
- 2- Handouts updated, administered by staff members
- 3- Museum notebook.
- 4- CDs for histopathological slides and museum specimens are available at the department.
- 6.2- Essential books (text books)
 - Rosai and Ackerman's Surgical Pathology Juan Rosai, Mosby 2004
 - Sternberg's Diagnostic surgical Pathology $\mathbf{4}^{\text{Ul}}$ edition, Lippincott Williams

and Wilkins

- Kumar V, Abbas AK, Fausto N:Robbins and Cotran Pathologic Basis of Disease, 7th ed.;2005, Elsevier Saunders. Available at faculty bookshops & main library.
- 6.3- Periodicals, Web sites, ... etc

http://www.pathmax.com/ http://www-

medlib.med.utah.edu/WebPath/LABS/LABMENU.html#2

http://www.med.uiuc.edu/PathAtlasf/titlePage.html

http://www.medscape.com/pathologyhome

http://www.gw hyperlink http://umc.edu/dept/path/2 umc.edu/dept/path/2F

Facilities required for teaching and learning:

Facilities used for teaching this course include:

- 15. Data show
- 16. Overhead projector
- **17.** Museum specimens
- 18. Projector slides covering available slides in slide box
- **5.** surgical specimen

Course coordinator:prof.dr.Hala Adel Agina Head of Department:Prof.Dr.Abdel latiff El-Balshi

Date: 14 / 8 /201²

جامعة بنها كلية الطب البشرى



توصيف مقرر (chest 605)

Medical Microbiology & Immunology Course for Master Degree in Chest

Academic Year 2013-2014

مواصفات المقرر:

البرنامج أو البرامج التي يقدم من خلالها المقرر:

Master Degree in Chest

المقرر يمثل عنصراً رئيسياً بالنسبة للبرنامج: الرئيسى

القسم العلمي المسئول عن البرنامج:

قسم الامراض الصدرية Medical Microbiology and Immuology department القسم العلمي المسئول عن تدريس المقرر:

> السنة الدراسية / المستوى: الاول

تاريخ إعتماد توصيف البرنامج: 5/4/2013

(أ) البيانات الأساسية

العنوان:

Microbiology & Immunology Course for Master Degree in Chest

الكود: Chest 60°

الساعات المعتمدة :1 hour

المجموع: hours ٥.٢٢ ساعات الإرشاد الأكاديمي: -

<u>(ب) البيانات المهنيا</u>

١ ـ الأهداف العامة للمقرر:

- 1.1. To educate students about the basic features of general bacteriology, virology, microbial genetics and mycology and to provide students with an understanding of the immune system, its protective functions and its role in the pathophysiology of infectious and non-infectious diseases.
- 1.2. To familiarize students with the common infections and diseases of medical importance, their microbial causes, as well as laboratory diagnosis, treatment, prevention and control of such diseases.
- 1.3. To enable the students to practice the principles infection control.

٢ - النتائج التعليمية المستهدفة للمقرر:
 أ - المعرفة والفهم:

By the end of the course, the student should be able to:

2.1.1. Illustrate general bacterial morphology, physiology and genetics.





- 2.1.2. Understand the host parasite relationship and microbial pathogenesis.
- 2.1.3. Explain the physiology of the immune system, its beneficial role, its interaction with tumors, its deficiency conditions, as well as its detrimental role in hypersensitivity, autoimmunity and transplant rejection
- 2.1.4. Describe the morphology, culture, antigenic structure and virulence factors of microorganisms of medical importance
- 2.1.5. Recognize the most important skin and venereal infectious conditions and outline the diagnosis, treatment, prevention and control of the most likely organisms causing such diseases
- 2.1.6. Describe the most important methods of decontamination, sterilization and principles of infection control.
- 2.1.7. Describe the basics of antimicrobial chemotherapy and resistance.
- 2.1.8. Understand the impact of molecular technology in microbiology and immunology.

ب ـ المهارات الذهنية:

By the end of the course, the student should be able to:

- 2.2.1. Identify medically important bacteria based on microscopic examination of stained preparations.
- 2.2.2. Identify a Gram stain and a Ziehl-Neelsen stain.
- 2.2.3. Identify culture media and biochemical tests commonly used for bacterial identification and distinguish positive and negative results.
- 2.2.4. Define various sterilization processes and simple infection control measures

جـ - المهارات المهنية والعملية الخاصة بالمقرر:

By the end of the course, the graduates should be able to

- 2.3.1. Identify medically important bacteria based on microscopic examination of stained preparations.
- 2.3.2. Identify a Gram stain and a Ziehl-Neelsen stain.
- 2.3.3. Identify culture media and biochemical tests commonly used for bacterial identification and distinguish positive and negative results.
- 2.3.4. Define various sterilization processes and simple infection control measures

د ـ المهارات العامة :

By the end of the course, the student should be able to

- 2.4.1. Demonstrate Respect for patients' rights and involve them and /or their caretakers in management decisions.
- 2.4.2. Adopt an empathic and holistic approach to the patients and their problems.
- 2.4.3. Respect the role and the contributions of other health care professionals regardless their degrees or rank (top management, subordinate or colleague).
- 2.4.4. Conduct counseling sessions for prevention & control of different conditions for healthy individuals, for patients as well as their families.





٣ ـ محتوى المقرر:

			ی انعور :	,
Subject	Lectur es (hrs)	Practical (hrs)	Total (hrs)	% of total
Introduction to Microbiology Bacterial Cell Structure Disinfection and Sterilization	0.75	0.5	1.25	5.6
Host parasite relationship Bacterial genetics (application of recombination and gene therapy) Antimicrobial chemotherapy	0.75		0.75	3.3
Staphylococci , streptococci, and Neisseria Pneumococci	0.5	2	2.5	11.1
Corynebacteria Bacillus Group & Clostridium	0.5	2	2.5	11.1
Mycobacteria, Gram negative bacilli & Gram negative small rods (all except moraxella, and in Haemophilus only Haemophilus influenza)	1	3	4	18
Spirochaetes , Mycoplasma , Rickettsia Chlamydia , Coxilla, Legionellae pneumophila &Listeria	1		1	4.4
Anaerobic gram negative bacilli Anaerobic gram negative cocci Applied Microbiology: respiratory tract infection, diseases transmitted by droplets	0.75		0.75	3.3
Cells of immune response. Natural &acquried immunity.	0.5		0.5	2.2





Immune response.				
Antigens, antibodies, complement				
cytokines.				
Cell mediated immunity	1		1	
MHC				
Apoptosis&necrosis				4.4
Superantigen				
				4.4
Hypersensitivity				
Autoimmune diseases Immunodeficiency diseases	1		1	
Tumor immunology				
Transplantation immunology				
General virology				10
– Structure				
Lab. Diagnosis (idea)				
Viral replication (idea)	1	1.25	2.25	
 Antiviral chemotherapy 		1,20	2.25	
 Antiviral immunity 				
 Pathogenesis of viral diseases 				
viral vaccines				
Herpesviruses	0.5			2.2
Adenoviruses	0.5		0.5	
Orthomyxoviruses & Paramyxoviruses				4.4
	1		1	
human immunodeficiency virus (HIV)	1		1	
hepatitis Viruses				
Mycotoxins	0.7	1	1.5	6.7
Antifungal drugs	0.5	1	1.5	
Deep mycotic infections(espicailly histoplasmosis	0.5		0.5	2.2





& aspergillosis)				
Revisions		1.5 hour	1.5	6.7
Total	11.25 hs	11.25 hs	22.5hs	

4- أساليب التعليم والتعلم:

- 1. Lectures.
- 2. Practical classes
- 3. Small group discussion with case study and problem solving.
- 4. Assay (using library & internet)

٥ ـ أساليب تقييم الطلاب

Tool	Purpose (ILOs)	
Written examination	To assess knowledge acquisition, including problem solving	
Oral examination	To assess understanding and stability of knowledge given,	
	attitude and presentation.	
Practical examination	To assess practical skills.	

5-A) ATTENDANCE CRITERIA:

1. Log book

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	To assess knowledge acquisition, including problem solving
Oral examination	To assess understanding and stability of knowledge given, attitude and presentation.
Practical examination	To assess practical skills.

5-C) <u>TIME SCHEDULE</u>:

Exam	Week	
5- Final exam	at (May or September)	

النسبة المئوية لكل تقييم:

5-D) Weighting System:





Examination	Marks allocated	% of Total Marks
- Final exam:		
a- Written	25	50%
b- Practical	10	20%
c- Oral	15	30%
Total	50	100%

⁻ Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.

FORMATIVE ASSESSMENT:

• Student knows his marks after the Formative exams.

5-E) Examination description:

Examination	Туре	Description			
Final Examination	1. Written	A three-hour written paper composed of short essay-type questions and Case study			
	2. Practical	Spots 10 spots including slides, culture media, biochemical reactions, serological tests and instruments. On each specimen, a small question should be answered (quiz).			
	3. Oral	One oral examination station with 2 staff members (10-15 minutes 4-5 questions)			

6 ـ قائمة المراجع

٦ ـ ١ ـ مذكرات المقرر

- 1. Jawetz, Melnick and Adelberg's Medical Microbiology
- 2. Mackie & McCartney Practical Medical Microbiology.
- 3. Abul K. Abbas Cellular and molecular immunology.

٦ - ٢ - الكتب الدراسية

- 1. Microbiology an introduction
- 2. Lpincott's Microbiology illusterated review.
- 3. Medical Microbiology: Department book and practical manual.
- 4. Lectures on Medical Virology: Department book.
- 5. Basic Immunology: Department book.

٦ ـ ٣ ـ مجلات دورية ، مواقع إنترنت





- 1. asmnews@asmusa.org
- 2. http://www.phage.org/black09.htm
- 3. http://www.microbe.org/microbes/virus_or_bacterium.asp
- 4. http://www.bact.wisc.edu/Bact330/330Lecturetopics
- 5. http://whyfiles.org/012mad_cow/7.html
- 6. http://www.microbelibrary.org
- 7. http://www.hepnet.com/hepb.htm
- 8. http://www.tulane.edu/~dmsander/Big_Virology/BVHomePage.html
- 9. http://www.mic.ki.se/Diseases/c2.html
- 10. http://www.med.sc.edu:85/book/welcome.htm
- 11. http://www.bioiogy.arizona.edu/immunology/microbiology_immunology.html

٧ - الإمكانيات المطلوبة للتعليم والتعلم

Facilities used for teaching this course include:

- Department lectures halls: 1
- Department Equipped Laboratories :2

ـ تم مناقشة التوصيف وإعتماده بمجلس القسم المنعقد بتاريخ / 2013

أستاذ المادة: رئيس القسم:

Prof. Wafaa Al Shafei Prof. Waffa Al Shafei التوقيع:

Benha Faculty of Medicine Community Medicine Master Program Specification 2013 - 7 · 14

Postgraduate Master Program Specification

المساوا

توصيف برنامج ماجستير الامراض الصدرية



Basic information

1- Program title: Master of Community Medicine.

2- 2- Course code : 607

Academic year : 2013 – 2014

3- Departments: Community Medicine Department.

4- Coordinator: Prof. Dr. Mahmoud Fawzy El-Gendy .

5- Internal Evaluator: Pro.Dr. Soad Darwish El Gendy.

5- External evaluator (s): Prof.Dr. Samir Mohamad Wassif.

6- Last date of program specifications approval: Department Council number 208, dated 29-8-2010

Revised & approved By Prof.Dr. Mahmoud Fawzy El Gendy 1/6/2013

7- Number of students enrolled to the program :(Variable)

8- Language used: English.

9- Learning & teaching: Active teaching & learning

10- Communication with the faculty through:

Web site: www.bfom.edu.eg. **E-mail**: Bfom@yahoo.com.

Postal: Benha, Benha faculty of medicine, Fared Nada street

Telephone: 013/3229450 **Fax**: 013/3227518

Professional Information

1- Program Aims:

The aim of the program is to provide postgraduate student with educational experience necessary for further practice in the community medicine through:

- **1.1** Effective application of principles of scientific research and utilization of Its different tools.
- **1.2** Application of analytic curriculum and using it in special field.
- 1.3 Application of special knowledge and mix it with knowledge related to practice.
- **1.4** Being aware of updating problems and new visions in special field.
- **1.5** Determination of practical problems and suggestion of solutions.
- **1.6** Performance of practical skills well and utilization of suitable technological methods in clinical practice.
- 1.7 Communication and leading teamwork through systematic practical work.
- **1.8** Making practical decision through available knowledge.
- **1.9** Utilization of available resources effectively.
- **1.10** Being aware of his role in community development and protect the environment through global and local changes.
- **1.11** Behaving in such a way that reflect fairness, consistency, career rule and accepting ask.
- **1.12** Being aware by the necessity of self development both academically and clinically and keep continuous learning.

2- Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

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

- **A.1** Describe theories, basics and specialized knowledge in learning field and sciences related to his career practice.
- **A.2** Recognize mutual effect between clinical practice and environment.
- **A.3** Develop scientifically in special field.





- **A.4** Identify ethical and legal principles related to his career practice.
- **A.5** Recognize principles and basics of quality.
- **A.6** Be aware by basis and ethics of scientific research.

B- Intellectual Skills:

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

- **B.1** Interpret and evaluate practical information and use it as standard for problem solving.
- **B.2** Find solution for special problems in spite of absence of some information.
- **B.3** Link different knowledge to solve practical problem.
- **B.4** Make research study or write scientific study about research.
- **B.5** Evaluate problem & risk factors related to clinical practice.
- **B.6** Plan for performance improvement in special field.
- **B.7** Make practical decision using different ways.

C- Skills:

C.a Professional & Practical Skills:-

By the end of the program the postgraduate should be able to

- **C.a.1** Apply effectively basic and updated practical skills in special field.
- **C.a.2** Write and evaluate practical reports.
- **C.a.3** Evaluate ways and methods in special field.

C.b General and Transferable Skills:

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

- **C.b.1** Communicate effectively through its different types.
- **C.b.2** Utilize technological knowledge to serve in clinical practice development.
- C.b. Evaluate and determine self need of education.
- **C.b.4** Use different sources to get knowledge and information.
- C.b.5 Work in team.
- **C.b.6** Save time effectively.
- **C.b.7** Lead a team in popular practical way.
- **C.b.8** Achieve Continuous self learning.

D-Attitude:

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

- **D.1** Develop Critical thinking.
- **D.2** Learn skills of planning & organization.
- **D.3** Work with others as teamwork.
- **D.4** Acquire positive attitude towards his community & its needs.

3-Academic Standards:

Community Medicine Department in Benha faculty of Medicine adopted the General National Academic Reference Standards (NARS) provided by authority for Quality Assurance & Accreditation of Education (NAQAAE

4-External Reference for Standards (Benchmarks):

Quality Assurance Agency for Higher Education Benchmarks in England, Wales and Northern Ireland (QAA, 2001)





5- Program structure and courses:

6.a- Program duration : 4 semesters.

6.b- Program structure: total 48 credit hours

I -First part: - total 7 credit hours

Environmental Health

Basic nutrition

Psychology

Microbiology

Parasitology

II-Second Part: total 17 credit hours

Medical statistics

Demography

Administration

Health services

Nutritional disorders

Health economics

Recent topics

Epidemiology

III- Thesis: 12 credit hours **IV- Logbook**: 5 credit hours

V- Other Faculty requirements: 7 credit hours

First Part								
Course name Course code Lectures Tutorials/Practical Total ILOs								
Environmental	COMM 601	1.5	0.5	2	A1,A2,A3			
Health								
Nutrition	COMM 602	1	-	1	A1,A2,A3			
Microbiology	COMM 603	1	0.5	1.5	C.a.1,C.b.1,C.b.2,C.b.3,			
Parasitology	COMM 604	1	0.5	1.5	C.a.1,C.b.1,C.b.2,C.b.3,			
Psychology	COMM 605	1	-	1	D2,D4			
Total		7 credit hours						

	Second Part								
Course name	Course	Lectures	Tutorials/Practical	Total	ILOs				
	code								
Medical	COMM	1	1	2	A1,A4,A6,B4,C.b.4,D1				
statistics	606								
Demography	COMM	1	-	1	A3,D4				
9 2 1	607								
Epidemiology	COMM	3	1	4	A1,A2,A3,B1,B2,B3,B5,B7,C.a.1,C.a.2,C.a.3				
	608								
Health	COMM	4	1	5	A1,A3,B1,B5,B6,B7,C.a.1,C.a.2,C.a.3,C.b.1,C.b.2,				





services	609				C.b.3,C.b.4,C.b.5,C.b.6,C.b.7,D4
Health	COMM	1	-	1	A1,B3,D1,D2,D3
economics	610				
Nutritional	COMM	1	0.5	1.5	A1,B5
disorders	611				
Administration	COMM	1	0.5	1.5	A1,A5,B6,C.b.3,C.b.4,C.b.5,C.b.7,C.b.8,D2,D3
	612				
Special Topics	COMM	-	1	1	C.b.8
	613				
Total	17 Credit hours				

7-Course contents:

	Courses of the First part							
Course name	Code	Contents	Lectures	Tutorial/Practical	Total			
Environmental Health	COMM 601	Physical hazards:- Heat disorders Pressure disorders Noise Radiation vibration illumination Air pollution Food sanitation Water sanitation Waste disposal Insect & rodent control	1.5	0.5	2			
Nutrition	COMM 602	Basic elements of nutrition:- carbohydrates Fats Proteins Minerals Vitamins Trace elements Antioxidants Food additives Nutritional assessment Therapeutic nutrition	1	-	1			
Microbiology	COMM 603	General microbiology special microbiology immunology Virology	1	0.5	1.5			
Parasitology	COMM 604	Trematodes Cestodes Nematodes Protozoa Entomology	1	0.5	1.5			





		Far East Trematodes Parasitological techniques Immunology.			
Psychology	COMM 605	Motivation Leadership Communication	1	-	1
Total	7 credit hours				

	Courses of the second part Course name Code Contents Lectures Tutorial/Practical Total							
Course name	Code	Lectures	Tutorial/Practical	Total				
Medical statistics	COMM 606	 Types of data Collection of data (sampling, screening ,Survey& epidemiological studies) Presentation of data(tabular & graphic) Summarization of data Analysis of data Hypothesis testing Interpretation of data. Ethics of research Biostatistics &vital rates 	1	1	2			
Demography	COMM 607	 Census Population pyramid Demographic transition Overpopulation problem 	1	-	1			
Epidemiology	COMM 608	 General epidemiology Epidemiology of Communicable disease: Air borne infections Food borne infections Contact infection and STDs Arthropod born infections Epidemiology of non communicable diseases: Cardiovascular diseases& hypertension D.M Cancer Injuries 	3	1	4			
Health services	COMM 609	 Maternal & child health services School health services Adolescent health services Rural health services Geriatric health services Occupational health services Mental health 	4	1	5			





Health economics	COMM 610	 Disease burden 	1	-	1
Nutritional disorders	COMM 611	MalnutritionObesity		0.5	1.5
Administration	COMM 612	 Planning Organization Staffing Direction Controlling Reporting Budgeting Evaluation Quality assurance Total quality management Hospital administration Communication Leadership 	1	0.5	1.5
Special Topics	COMM 613	 Recent topics related to Community Medicine 	-	1	1
Total		17 credit hour	S		

8- Program admission requirements:

8.a General requirements:

• Candidates should have MBBCH Degree from any Egyptian Faculty of Medicine or Equivalent Degree from Medical Schools approved by the Ministry of Higher Education

8.b special requirements:

- Candidates graduated from Egyptian Universities should have at least good grade in their final examination and good grade in community medicine course too.
- Speak & write English well.
- Having computer skills.

4- Regulations for progression and program completion:

Duration of the program is 4 semesters (2 academic years), starting from registration till acceptance of the thesis; divided to:

First part:

- 6 months after registration should pass before the candidate can ask for examination in the first part& In case of failure, the candidate is examined in the subject of failure only.
- Two sets of exams: first in April &the second in October.
- A score of at least 60% is needed to pass the first part exam.

Second part:

- 18 months after registration should pass before the candidate can ask for examination in the second part.
- Two sets of exams: first in April &the second in October.
- A score of at least 60% in written exam is needed to be admitted to the oral exam.
- Four times of oral exam are allowed before the student has to be re-attend the written exam.
- Thesis could start after registration and should be completed, defended and accepted after passing the second part final exam, and after passing of at least 24 months after documentation of the subject of the





thesis or 6 months after passing the second part should pass before discussing the thesis.

• Accepting the thesis is enough to pass this part.

10- Evaluation of Program Intended Learning Outcomes:

No.	Tool	ILOs
1	Written examination	To assess knowledge &
		intellectual skills.
2	Oral examination	To assess knowledge, intellectual
		skills& general& transferable
		skills.
3	Thesis	To assess professional ,practical &
		intellectual skills

11- Tools for program evaluation:

Evaluator	Tool	Sample	
1.Senior student	Questionnaire	Attached annex	
2.Alumni	Questionnaire	Available	
3.Stakeholder (Employers)	Questionnaire	Available	
4.External Evaluator(s)	Prof.Dr.Samir	Available reports	
	Mohamed Wassif.		

Program Coordinator: Prof. Dr. Mahmoud Fawzy El Gendy

Head of department: Prof. Dr. Mahmoud Abdel Moneom Dawah

Dean of faculty of medicine: Prof. Dr. Mohamad Alshafey

Date: 29 / 8 /2013

Appendix Program-Courses ILOs Matrix

	A- Knowledge & Understanding							
Courses	A.1	A.2	A.3	A.4	A.5	A.6		
Environmental Health	X	X	X					
Nutrition	X	X	X					
Microbiology								
Parasitology								





Psychology						
Medical statistics	X			X		X
Demography			X			
Epidemiology	X	X	X			
Health services	X		X			
Health economics	X					
Nutritional disorders	X					
Administration	X				X	
Special Topics						

		B-Intellectual skills							
Courses	B.1	B.2	B.3	B.4	B.5	B.6	B.7		
Environmental Health									
Nutrition									
Microbiology									
Parasitology									
Psychology									
Medical statistics				X					
Demography									
Epidemiology	X	X	X		X		X		
Health services	X				X	X	X		
Health economics			X						
Nutritional disorders					X				
Administration						X			
Special Topics									

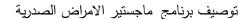
	C- Skills										
Courses	C.a.1	C.a.2	C.a.3	C.b.1	C.b.2	C.b.3	C.b.4	C.b.5	C.b.6	C.b.7	C.b.8
Environmental Health											
Nutrition											





Microbiology	X			X	X	X					
Parasitology	X			X	X	X					
Psychology											
Medical statistics							X				
Demography											
Epidemiology	X	X	X								
Health services	X	X	X	X	X	X	X	X	X	X	
Health economics											
Nutritional disorders											
Administration						X	X	X		X	X
Special Topics											X

	D- Attitude							
Courses	D.1	D.2	D.3	D.4				
Environmental Health								
Nutrition								
Microbiology								
Psychology		X		X				
Medical statistics	X							
Demography				X				
Epidemiology								
Health services				X				
Health economics	X	X	X					
Nutritional disorders								
Administration		X	X					
Special Topics								







Benha Faculty of Medicine Chest Diseases Department

Course specifications

Course title: Master in Chest diseases and Tuberculosis

Code: CHES7.

Academic Year (2013 – 2014)

Department: Chest Diseases Department **Date of specification approved:** 2013-2014

A) Basic Information:

Allocated marks: 1000 marks

Course duration: 24 months of teaching

Teaching hours : 16.25 hours / month = 292.5 total teaching hours

Teaching hours: lectures: 90hrs practical:202.5hrs

B) Professional Information:

1- Course contents:

subject	Lectures (hrs)	Tutorial/ Small group discussio n (hrs)	Practical (hrs)	Total (hrs)	% of total
Development and structure	2	XXX	XXX	۲	0.7%
Functions of the lung	2	XXX	XXX	۲	0.7%
Acid-base status	2	XXX	2	4	1.4 %
Lung mechanics and control of	2	XXX	2	4	1.4 %
breathing	_			_	0 =
Lung defences and immunology	2	XXX	XXX	2	0.7%
Genetics of lung disease	2	XXX	XXX	2	0.7%
Clinical aspects	XXX	XXX	17	17	5.8%
Intercostal intubation	2	XXX	8	10	3.45
Fiberoptic bronchoscope and	2	XXX	4	6	2.1%
thoracoscope					
Pft	2	4	4	10	3.4%
Oxygen therapy and nebulizers	2	2	6	10	3.4%
Diagnostic imaging	2	4	6	12	4.1%
SMOKING and air pollution	2	2	XXX	4	1.4 %





Acute upper respiratory tract	2	XXX	XXX	2	0.7%
infection					
Pneumonia	2	XXX	4	6	%۲
Lung abscess	2	XXX	XXX	2	0.7%
Tuberculosis	6	2	120	128	43.8%
Fungal and parasitic diseases	2	XXX	XXX	2	0.7%
Chronic bronchitis and emphysema	2	4	4	10	3.4%
Respiratory failure	2	XXX	2	4	1.4 %
Pulmonary embolism	2	XXX	XXX	2	0.7%
Bronchiectasis	2	XXX	2	4	1.4 %
Cystic fibrosis	2	XXX	XXX	2	0.7%
Interstitial lung diseases	2	XXX	XXX	2	0.7%
Asthma	2	4	XXX	6	2.1%
Lung cancer	6	4	2	12	4.1%
Diseases of the pleura	4	XXX	2	6	% ٢
Chest wall and neuromuscular	2	XXX	XXX	2	0.7%
disorders					
Diseases of the diaphragm	2	XXX	XXX	2	0.7%
Sleep related disorders	2	XXX	1.5	3.5	1.2 %
Diseases of the mediastinum	2	XXX	XXX	2	0.7%
Pulmonary manifestations of	2	XXX		2	0.7%
systemic disease					
Occupational lung diseases,	2	XXX	2	4	1.4 %
Lung transplantation	2	XXX	XXX	2	0.7%
Terminal care in respiratory diseases	2	XXX	XXX	2	0.7%
Nanotecnology in chest diseases	2	XXX	XXX	2	0.7%
Total	80	30	182.5	292.5	100 %

III-A) Topics details:

DEVELOPMENT AND STRUCTURE

- 1) Development of the lungs
- 2) Development of the airways and vessels
- 3) Cellular development of the lung
- 4) Postnatal development
- 5) Structure of the respiratory tract
- 6) Blood vessels of the lung
- 7) Bronchial circulation
- 8) Pulmonary circulation
- 9) Lymphatics of the lung
- 10) Innervation of the lung

FUNCTIONS OF THE LUNG



1) Ventilation

- a) Minute ventilation
- b) Anatomical dead space
- c) Physiological dead space and alveolar ventilation
- d) Alveolar air equation
- e) Partial pressures of oxygen and carbon dioxide in the respiratory system
- f) Lung volumes

2) Perfusion

- a) Control of pulmonary circulation
- b) Variation in pulmonary circulation
- c) Measurement of pulmonary blood flow
- d) Causes of hypoxaemia

3) Diffusion

- a) Factors affecting gaseous diffusion in the lung
- b) Components of DLCO
- c) Significance of changes in DLCO
- d) Methods of measuring DL
- e) Oxygen and carbon dioxide transport in blood
- f) Measurement of blood gas tensions

Acid-base status

Interpretation of ABGs

Lung mechanics

- 1) Surfactant
- 2) Airways resistance
- 3) Pulmonary function tests
- 4) Tests for ventilation
- 5) Test for diffusion
- 6) Tests for airway resistance
- 7) Compliance
- 8) Closing volume and closing capacity
- 9) Work of breathing
- 10) Bronchoprovocation tests

Respiratory muscles in health and diseases

Control of breathing

- 1) Central nervous mechanisms
- 2) Repetors and reflexes in the respiratory system
- 3) High-altitude physiology

LUNG DEFENCES AND IMMUNOLOGY

- 1) Defenses of the respiratory tract
- 2) Upper respiratory tract



3) Lower respiratory tract

GENETICS OF LUNG DISEASE

- a) Genetic counseling
- b) Evidence for genetic effect and the hunt for 'disease genes'
- c) Syndromes and genetic effects
- d) Cystic fibrosis
- e) Immotile cilia syndrome
- f) Atopy and associated asthma and rhinitis
- g) a1-Antitrypsin deficiency
- h) Immune system
- i) Vascular system
- j) Tumor genetics
- k) Pharmacogenetics
- 1) Microbial genetics

CLINICAL ASPECTS

Principal symptoms of respiratory disease

- a) Cough
- b) Expectoration
- c) Hemoptysis
- d) breathlessness
- e) Chest pain wheezing
- f) Stridor
- g) Mediastinal compression
- h) Toxemia

Signs of respiratory disease

- a) Tachypnea
- b) Cyanosis
- c) Clubbing and hypertrophic ostoearthropathy
- d) Breath sounds
- e) Added sounds
- f) Pleural rub

DIAGNOSTIC IMAGING

- 1) Chest radiography
- 2) Computed tomography
- 3) Lung scintigraphy
- 4) Spiral CT pulmonary angiography
- 5) Magnetic resonance imaging
- 6) Fluoroscopy
- 7) Pulmonary and bronchial angiography

MINIMALLY INVASIVE DIAGNOSTIC PROCEDURES

1) Bronchoscopy and BAL



- 2) Thoracoscope
- 3) Lung biopsy

DRUGS IN LUNG DISEASE

- 1) Antimicrobial agents for use against bacteria and bacteria-like organisms
- 2) Drugs used in the management of tuberculosis
- 3) Drugs used in the management of airflow limitation
- 4) Glucocorticosteroids
- 5) Cytotoxic drugs used in respiratory medicine

SMOKING

- 1) Harm to smokers on the respiratory system
- 2) Harm to non-smokers
- 3) Mechanisms of harm
- 4) Effect of Smoking cessation

AIR POLLUTION

- 1) Main pollutants
- 2) Carcinogens
- 3) Effects of air pollution
- 4) Indoor air pollution
- 5) Advising patients about air pollution
- 6) Control of air pollution

<u>ACUTE UPPER RESPIRATORY TRACT INFECTION</u>

- 1) Common cold (acute coryza, nasopharyngitis)
- 2) Acute pharyngitis and tonsillitis
- 3) Acute supraglottitis (epiglottitis)
- 4) Acute laryngitis
- 5) Sinusitis (rhinosinusitis)
- 6) Acute bronchitis, tracheitis and
- 7) tracheobronchitis
- 8) Pertussis (whooping cough)

PNEUMONIA

- 1) Definition
- 2) Classification and terms in common usage
- 3) Pathogenesis
- 4) Investigation
- 5) Antimicrobial treatment
- 6) Hospital-acquired (nosocomial) pneumonia
- 7) Pneumococcal pneumonia
- 8) Legionella pneumonia
- 9) Mycoplasma pneumonia
- 10) Chlamydia pneumonia
- 11) Staphylococcal pneumonia



- 12) Streptococcal pneumonia
- 13) Klebsiella pneumonia (Friedländer's pneumonia)
- 14) Coxiella pneumonia (Q fever)
- 15) Pseudomonas pneumonia
- 16) Escherichia coli pneumonia
- 17) Pneumonia caused by other Gram-negative aerobic opportunistic bacilli: *Enterobacter*, *Serratia*, *Proteus*, *Acinetobacter*
- 18) Haemophilus influenzae pneumonia
- 19) Moraxella catarrhalis pneumonia
- 20) Pneumonia caused by anaerobes (including aspiration pneumonia)
- 21) Rare and unusual bacterial pneumonias
- 22) Viral pneumonias
- 23) Radiation pneumonitis and fibrosis
- 24) Other forms of pneumonitis
- 25) Lipoid pneumonia
- 26) Pulmonary reactions to bronchographic contrast media

EMPYEMA

- 1)Pathology
- 2)Pathogenesis
- 3) Clinical manifestations
- 4) Diagnosis
- 5)Management

LUNG ABSCESS

- 1) Mechanisms of infection
- 2) Microbiological characteristics
- 3) Pathology
- 4) Clinical features
- 5) Investigation
- 6) Management

TUBERCULOSIS

- 1) Pathogenesis
- 2) Epidemiology
- 3) Prevention
- 4) Clinical features
- 5) Extra-pulmonary
- 6) Tuberculosis
- 7) Management
- 8) Opportunistic mycobacterial
- 9) Disease

ACTINOMYCOTIC AND FUNGAL DISEASES

- 1) Actinomycetes
- 2) Fungi
- 3) Nocardiosis

PARASITIC DISEASES



Protozoa

- a) Trypanosoma
- b) Entamoeba
- c) Plasmodium
- d) Toxoplasma

Nematoda

- a) Trichinell
- b) Ascaris
- c) Ancylostoma
- d) Necator
- e) Strongyloides
- f) Toxocara
- g) Dirofilaria

CHRONIC BRONCHITIS AND EMPHYSEMA

- 1) Definitions and terminology
- 2) Epidemiology
- 3) Aetiology
- 4) prognosis
- 5) Pathology
- 6) Pathogenesis of COPD
- 7) Pathophysiology
- 8) Clinical features
- 9) Investigations
- 10) management

RESPIRATORY FAILURE

- 1) Types and etiological causes
- 2)Clinical features
- 3) Diagnosis
- 4)Management

PULMONARY EMBOLISM

- 1) Mechanisms of thrombosis
- 2) Prevalence
- 3) Non-thrombotic pulmonary emboli
- 4) Pathophysiological response to pulmonary embolism
- 5) Clinical features
- 6) Diagnosis
- 7) Management

PULMONARY HYPERTENSION

- 1) Mechanics of the pulmonary circulation
- 2) Regulation of pulmonary vascular tone
- 3) Causes of pulmonary hypertension
- 4) Clinical features
- 5) Diagnosis
- 6) Management

PULMONARY OEDEMA



- 1) Anatomy and physiology
- 2) Clinical features
- 3) Diagnosis
- 4) Management

ADULT RESPIRATORY DISTRESS SYNDROME

- 1) Definition
- 2) Causes
- 3) Predisposing events and predictive factors
- 4) Pathology
- 5) Pathogenesis
- 6) Pathophysiology
- 7) Clinical features
- 8) Diagnosis
- 9) Management

BRONCHIECTASIS

- 1) Definition
- 2) Prevalence
- 3) Aetiology and pathogenesis
- 4) pathogenesis of bronchiectasis
- 5) Pathology
- 6) Clinical features
- 7) Diagnosis
- 8) Management

BRONCHIOLAR DISEASE

- 1) Syndromes of bronchiolitis
- 2) Clinical features
- 3) Diagnosis
- 4) Management

CYSTIC FIBROSIS

- 1) Genetics
- 2) pathogenesis
- 3) Pathology
- 4) Presentations
- 5) complications
- 6) Management

PULMONARY FIBROSIS

- 1) Aetiology
- 2) Pathology
- 3) Pathogenesis
- 4) Differential diagnosis of diffuse interstitial lung disease
- 5) Clinical features
- 6) Diagnosis
- 7) Management

ASTHMA

1) Definition and presentation



- 2) Epidemiology
- 3) Etiology and risk factors
- 4) Cellular and humoral mechanisms
- 5) Clinical features
- 6) Diagnosis
- 7) Management

REACTIVE AIRWAYS DYSFUNCTION SYNDROME

- 1) Definition
- 2) Etiology
- 3) Clinical features
- 4) Diagnosis
- 5) Management

HYPERSENSITIVITY LUNG DISEASES

- 1) Definition
- 2) Etiology
- 3) Pathology
- 4) Pathogenesis
- 5) Clinical features
- 6) Diagnosis
- 7) Management

PULMONARY EOSINOPHILIAS

- 1) Definition
- 2) The eosinophil
- 3) Etiological Classification
- 4) Clinical features
- 5) Diagnosis
- 6) Management

SARCOIDOSIS

- 1) Definition
- 2) Epidemiology
- 3) Aetiology
- 4) Pathology
- 5) Immunology
- 6) Modes of presentation
- 7) Investigations
- 8) Treatment

PULMONARY LYMPHOCYTIC ANGIITIS AND GRANULOMATOSIS

- 1) Classical Wegener's granulomatosis
- 2) Limited Wegener's granulomatosis
- 3) Midline granuloma (nasal T-cell lymphoma)
- 4) Lymphomatoid granulomatosis
- 5) Benign lymphocytic angiitis and granulomatosis
- 6) Necrotizing sarcoid granulomatosis
- 7) Bronchocenteric granulomatosis



LUNG CANCER

- 1) Epidemiology
- 2) Aetiological factors
- 3) Laboratory studies
- 4) Histological classification
- 5) Clinical features
- 6) Investigation
- 7) Staging
- 8) Treatment
- 9) Paraneoplastic syndromes
- 10) Obstruction of the SVC
- 11) Prognosis
- 12) Hodgkin's lymphoma
- 13) Non-Hodgkin's lymphoma
- 14) Carcinoid tumour
- 15) Teratoma
- 16) Hamartoma
- 17) Metastatic tumours in the lung

DISEASES OF THE PLEURA

- 1) Physiology of the pleura
- 2) pleurisy
- 3) Pleural effusion
- 4) Tumours of the pleura

PNEUMOTHORAX

CHEST WALL AND NEUROMUSCULAR DISORDERS

- 1) Congenital abnormalities of the chest wall
- 2) Acquired abnormalities of the chest wall
- 3) Tumours of the chest wall
- 4) Infections of the chest wall
- 5) Neuromuscular conditions affecting respiration

ABNORMALITIES AND DISEASES OF THE DIAPHRAGM

- 1) Embryology
- 2) Radiological appearances
- 3) Function
- 4) Diaphragmatic fatigue

SLEEP APNOEA/HYPOPNOEA SYNDROME

- 1) Mechanisms of upper airway narrowing
- 2) Consequences of upper airway narrowing
- 3) Consequences of sleep apnoea
- 4) Differential diagnosis
- 5) Management

DISEASES OF THE MEDIASTINUM

1) Anatomy of the mediastinum

The second secon

توصيف برنامج ماجستير الامراض الصدرية



- 2) Mediastinal tumours and cysts
- 3) Mediastinitis
- 4) Pneumomediastinum

DEVELOPMENTAL DISORDERS OF THE LUNGS

- 1) Tracheobronchial anomalies
- 2) Anomalies involving the lung parenchyma
- 3) Anomalies of the pulmonary vasculature

RESPIRATORY INFECTION IN THE IMMUNOSUPPRESSED

- 1) Patterns of pulmonary complication
- 2) Clinical features of lung disease
- 3) diagnosis
- 4) HIV and AIDS
- 5) Lymphoma
- 6) Pneumocystis carinii pneumonia

PULMONARY MANIFESTATIONS OF SYSTEMIC DISEASE

- 1) Inherited disorders
- 2) Acquired disorders

OCCUPATIONAL LUNG DISEASES DRUG-INDUCED LUNG DISEASE

- 1) Coal worker Pneumoconioses
- 2) Asbestosis
- 3) Silicosis
- 4) Siderosis and mixed-dust pneumoconioses
- 5) Berylliosis
- 6) Byssinosis
- 7) Toxic gases and fumes

OXYGEN TOXICITY AND RELATED SYNDROMES

- 1) Mechanisms
- 2) Causes
- 3) Clinical features
- 4) Managements

ASSISTED VENTILATION

- 1) Principles of ventilation
- 2) Modes of ventilation
- 3) Pressure support ventilation
- 4) Aims of ventilation
- 5) Tracheostomy and endotracheal tube ventilation
- 6) Mask and mouthpiece ventilation
- 7) Negative-pressure ventilation
- 8) Weaning

LUNG TRANSPLANTATION

- 1) Indications
- 2) Surgical techniques

The state of the s

توصيف برنامج ماجستير الامراض الصدرية



- 3) Donor selection and lung preservation
- 4) Perioperative care
- 5) Management of complications

MEDICOLEGAL ASPECTS OF LUNG DISEASE

- 1) Medico legal ethics
- 2) Compensation
- 3) Role of the doctor as expert

III -B) Tutorial / Small Group Discussions

- 1) Interpretation of Arterial blood gases
- 2) Interpretation of pulmonary function tests
- 3) Approach to patient with Dyspnoea
- 4) Approach to patient with cough
- 5) Approach to patient with hemoptysis
- 6) Approach to patient with wheezing
- 7) Approach to patient with chest pain
- 8) Approach to patient with strider
- 9) Andmycobacterial therapy
- 10) Antibiotic and chemotherapeutics

III- Practical classes:

- 1) Chest case taking and physical examination
- 2) Obstructive lung diseases
- 3) Interstitial lung diseases
- 4) Pulmonary tuberculosis
- 5) Suppurative lung diseases
- 6) Pleural effusion
- 7) Bronchogenic carcinoma
- 8) Pulmonary function tests
- 9) Intercostal intubation
- 10) Fiberoptic Bronchoscope
- 11) O2 therapy
- 12) Nebulizers and inhalation therapy
- 13) Tuberculin and allergy skin testing
- 14) BCG and other vaccinations
- 15) Mechanical ventilation

2- Teaching and Learning methods:

Methods used:

Facilities used for teaching this course include:

LECTURE HALL:

At the chest department. Writing board and Data show facilities are available. The Hall is will equipped with microphones and sound system

CHEST HOSPITAL

Benha chest hospital

SMALL GROUP CLASSES:





4 rooms at the chest department. Data show are available for use when needed.. Writing boards are not available in all rooms.

LIBRARY:

8th floor of Benha Faculty of medicine. E book in chest department is in progress.

CLINICAL FACILITIES:

Specialized outpatient clinic serving over 100 patients (once every week).

4 inpatient units in chest department

SKILLS LAB/ MODELS:

Chest models are not available at the moment

METHODS FOR DISABLED STUDENTS:

No special arrangements are available.

N.B. We need

Writing boards in all rooms

Chest models

Teaching plan:

Lectures:

Lectures at the lecture hall in the chest department, daily from 9.00–11.00 am in each term. Lectures would cover diagnostic pictures, diagnostic tools and problem solving, as well as some introductory and core topics (introduction to assignment, emergencies, genetics, behavioral issues and ethics, communication skills and orientation to special services)

Tutorials:

Division of students into 4 groups, at the 4 rooms in the chest department twice weekly from $11.00-12.30~\mathrm{am}$

Practical classes

Students are divided into 4 groups. Each group in each room . teaching staff are available for each room . Teaching starts at 11.00 -12.30 am daily teaching will include training on history taking and clinical examination as well as presentation and discussion of clinical findings.

Time plan:

Item	Time schedule	Teaching hours	Total hours
Lectures	9.00 – 10.00 am Five days / month	5 hours/month	90 hrs
Practical	Daily: 11.00 – 12 am Five days / month	5 hours /month	90 hrs
Tutorial	12.30 – 1.45 pm Once a month	1.25 hours / month	22.5 hrs
Tuberculosis control	10.00 – 12.00 am Twice a month	5 hours /month	90 hrs





program		
Total	16.25 hrs / month	292.5 hrs

3- Students assessment methods:

3-A) Attendance criteria: Faculty bylaws

Student are graded according to the following table

- Passing grades are: EXCELLENT >85%, VERY GOOD 75- <85%, GOOD 65- <75% and FAIR 60-<65%.

3-B) Assessment tools:

Tools	Purpose (ILOs)
Written examination Short essay MCQs	To assess 1a, 2a1 To assess 1a., 2a3
Oral examination	To assess 2a1 ,2a2
Practical examination	To assess 1b, 2a2, 2a3, 2c1, 2c2, 2c4

3-C) Time schedule: Faculty bylaws

FINAL EXAMINATION: at the end of the academic term for all students.

3-D) Weighting system:

	Examiı	nation	Mark allocated	% of Total Marks
Shock	exams		(not previously announced)	Xxxx
Final		Paper 1	250	25%
exam	Written	Paper 2	250	25%
		Long case	100	10%
	ъ	Short case1	50	5%
	Practical	Short case 2	50	5%
		Station 1	100	5%
		Station 2	50	5%
	Oral	Oral question	100	5%
Log bo	Log book		50	5%
Total			1000	100%

The minimum passing and passing grades (Faculty bylaws) Fre No 5A





Formative assessment:

Student knows his marks after the Formative exams.

3-E) Examinations Description:

Exan	nination	Description:	Marks
Shock	exams	Shock exams (not previously announced) based on short	XXX
		written questions	
		Paper 1 :Selected MCQs &short essay questions	250
	Written	Paper 2: Selected MCQs &short essay questions	250
Final		Total	500
exam		Long case	100
	Practical	Short case 1	50
		Short case 2	50
		Total	200
		Station 1 : X ray and CT	100
	Oral	Station 2: PFT and ABG	50
		Sation 3 : oral question	100
		Total	250
Assignr activitie	nent &other	Log book	50
Total			1000

4- List of references:

6-1: Basic materials: handout Overhead projections, slides and computer presentations used during teaching

4-2: **Essential books**: Crofton And Douglas's Respiratory Diseases (Set of 2 Volume) (English) 6th

Edition 2008 Blackwell Science Ltd Editorial Offices: Osney Mead, Oxford OX2 0EL 25 John Street, London WC1N 2BL 23 Ainslie Place, Edinburgh EH3 6AJ 350 Main Street, Malden

MA02148 5018, USA 54 University Street, Carlton Victoria 3053, Australia 10, rue Casimir Delavigne

75006 Paris, France

4-3: **Recommended books :** Crofton And Douglas's Respiratory Diseases (Set of 2 Volume)

(English) 6th Edition 2008 Blackwell Science Ltd Editorial Offices: Osney Mead, Oxford OX2 0EL 25 John Street, London WC1N 2BL 23 Ainslie Place, Edinburgh EH3 6AJ 350 Main Street, Malden MA02148 5018, USA 54 University Street, Carlton

Victoria 3053, Australia 10, rue Casimir Delavigne

4-4: periodicals, websites

http://www.chestnet.org/accp/

http://www.thoracic.org/

http://dev.ersnet.org/

http://erj.ersjournals.com/

http://thorax.bmj.com/

The second secon

توصيف برنامج ماجستير الامراض الصدرية



5- Facilitied required for teaching and learning:

Facilities used for teaching this course include:

LECTURE HALL:

At the chest department. Writing board and Data show facilities are available. The Hall is will equipped with microphones and sound system

CHEST HOSPITAL

Benha chest hospital

SMALL GROUP CLASSES:

4 rooms at the chest department. Data show are available for use when needed.. Writing boards are not available in all rooms.

LIBRARY:

8th floor of Benha Faculty of medicine. E book in chest department is in progress.

CLINICAL FACILITIES:

Specialized outpatient clinic serving over 100 patients (once every week).

4 inpatient units in chest department

SKILLS LAB/ MODELS:

Chest models are not available at the moment

METHODS FOR DISABLED STUDENTS:

No special arrangements are available.

N.B. We need

Writing boards in all rooms Chest models

Course coordinator: Prof. Magdy Omar

Head of department: **Prof. Sherif Essa**

Date: 25 /08/2013