



جامعة بنها كلية الطب البشرى قسم الطب الشرعى و السموم الأكلينيكية

توصيف برنامج الدكتوراة الطب الشرعى و السموم الأكلينيكية (عام 2013-2014)

* معلومات أساسية : Basic information

MD of Forensic Medicine & Clinical Toxicology : - اسم البرنامج - ۱

۲ ـ طبيعة البرنامج : Multiple

٣- القسم المانح للدرجة: الطب الشرعى و السموم الأكلينيكية

الأقسام المشتركة في البرنامج: التشريح، الباثولوجي، الباطنة العامة.

٤- تاريخ إقرار البرنامج في مجلس القسم : 5 / 9 / 2013

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

٦- مسؤل البرنامج: Prof. Ola Gaber Haggag

۷- المراجة الداخلية للبرنامج: Prof. Dr. Mohammed Kamel
 ۲- المراجعة الخارجية للبرنامج: Prof. Dina Shokry; Professor of Forensic Med.
 8- المراجعة الخارجية للبرنامج: Clin. Toxicology, Cairo University

Professional information

<u>* معلومات متخصصة:</u>
 ۱ - الأهداف العامة للبرنامج :

1- Program aims:

The overall aims of the program are to:

- **1.1.** *Acquire* Detailed and advanced knowledge and skills necessary for practicing and adding new concepts in forensic medicine, and clinical toxicology.
- **1.2.** *Integrate* the medical data of forensic medicine and toxicology properly in the service of justice.





- **1.3.** *Accept* decision making capabilities in different situation related to forensic medicine and clinical toxicology.
- **1.4. Percept** lifelong learning competencies necessary for continuous professional development; self-learning and basis of medical research in field of forensic medicine & clinical toxicology.
- **1.5.** *Function* as leader of a team to provide patient care that is appropriate for dealing with health problems and health promotion.
- **1.6.** *Create* solutions for health problems facing him/her during practicing forensic medicine & clinical toxicology.
- **1.7.** *Accept* communication and interpersonal skills necessary for effective information exchange with patients and their families and with other health professions.
- **1.8.** *Acquire* professionalism and attitudes in relation to colleagues, medical students and other health professions.
- **1.9. Show** awareness of decision making capabilities in different situation related to forensic medicine and clinical toxicology.
- **1.10.** *Use* recent technologies to improve his practice in forensic medicine and clinical toxicology.

۲ - المخرجات التعليمية المستهدفة من البرنامج :

2-Intended Learning Outcomes (ILOS):

٢.أ - المعرفة والفهم :

On successful completion of the program, the candidate will be able to:

- **2.a.1. Recognize** the medicolegal aspects of different clinical forensic medicine disciplines including the various legal and medico-legal problems in civil and criminal cases.
- 2.a.2. Illustrate the different aspects of forensic pathology disciplines





including postmortem examination "autopsy" of human body and interpretation of the results of autopsy to identify the cause and manner of death.

- **2.a.3.** *Identify* principles and applications of forensic sciences; postmortem chemistry, and forensic radiology.
- 2.a.4. Distinguish different branches of toxicology, especially clinical toxicology (either general or systemic toxicology, acute or chronic), analytical toxicology and forensic toxicology.
- **2.a.5. Describe the** anatomical, histological, physiological and pathological medical facts related to forensic medicine and clinical toxicology practice.
- **2.a.6. Discuss** the medical malpractice issues, medical responsibility, different biomedical ethics and ethical dilemmas in the field of medicine & biomedical researches.
- *2.a.7. Highlight* the different medical statistical methods necessary for proper research methodology in the field of his study.
- 2.a.8. Understand the medical background of different organ failures, and toxicological causes of different medical health diseases, including (coma, shock, metabolic and electrolytes disturbances..... etc.).
- **2.a.9.** *Illustrate* the impact of practicing forensic medicine and clinical toxicology on community and environment to improve the health outcomes.
- **2.a.10.** *Know* the principles and basic concepts of quality in professional practice including planning, improvement of performance and control of practicing outcomes.

٢. ب - القدرات الذهنية :





2.b. Intellectual Skills:-

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

- **2.b.1.** *Formulate* diagnostic approaches necessary for proper diagnosis and management of intoxicated cases (either acute or chronic and drug dependence), and other related medical conditions.
- **2.b.2.** Judge the risk hazards that could be met during autopsy, forensic examination of living parsons and during management of intoxicated patients.
- **2.b.3. Assess** different case scenarios of clinical and forensic toxicology, clinical forensic medicine, and forensic pathology as well as the different crime scene evidences investigations, to solve medicolegal problems and reach to the cause, mechanism, mode and manner of death.
- **2.b.4. Select** the suitable analytical and investigational methods needed for toxicological diagnosis and identification of physical evidences either for screening purposes or for confirmatory methods in the living and dead cases.
- *2.b.5. Design* a research protocol and choose a proper research methodology for thesis work in forensic medicine and clinical toxicology.
- **2.b.6.** *Correlate* between forensic and toxicological conditions and its related physiological, pathological, histological and anatomical scientific basis to establish evidence based discussion.
- **2.b.7.** *Differentiate* between various poisoning categories and interpret data to reach a proper diagnosis.
- **2.b.8.** *Decide* indications for inpatient management of various conditions and differentiate those who can be managed safely as an outpatient.





- 2.b.9. Judge the different medical ethical dilemmas commonly met in field of medicine.
- **2.b.10.** *Criticize* medicolegal reports based on medicoleegal evidences, and crime scene investigation and be able to rewrite the reports.
- **2.b.11.** *Plan* for improvement of professional performance in the field of forensic medicine and clinical toxicology.

۲.ج . مهارات مهنية وعملية : - 2.c. Practical & Clinical Skills:

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

- 2.c.1. *Manage* different toxicological cases, either acute or chronic and that of drug dependence and their related medical conditions.
- 2.c.2. Write a detailed medicolegal report for the different medicolegal conditions.
- **2.c.3.** *Improve* professional performance in the field of forensic medicine and clinical toxicology by using suitable technical methods during providing healthcare.
- **2.c.4.** *Perform* medico-legal autopsies for different medicolegal deaths and medico-legal examination for cases of clinical forensic medicine.
- **2.c.5.** *Write* detailed autopsy reports and other reports about identification of living, sex and ages from bones and by using X-rays films.
- **2.c.6.** *Perform* a research design (thesis) in his medical specialty; either about a subject related to forensic medicine or clinical toxicology
- **2.c.7.** *Identify* different anatomical and pathological specimen after their macroscopic and microscopic examination.
 - 2.d. General and transferable skills: . . . ۲ د. مهارات عامة :



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

- 2.d.1. Retrieve, manage, and manipulate information by all means, including electronic means, in a timely manner to effectively participate in medical seminars and conferences.
- 2.d.2. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and skills of his specialty.
- *2.d.3. Establish* life-long self-learning required for continuous professional development in his specialty.
- *2.d.4. Work* effectively as a member or leader of a health care team or other professional groups.
- *2.d.5. Communicate* effectively with physicians, other health professionals, and health related agencies.
- **2.d.6.** *Demonstrate* compassion, integrity, and respect for all patient's rights and treat all patients equally regardless to their believes, culture and behavior.
- **2.d.7.** *Manage* time effectively and meeting organization including scientific seminars and conferences.
- 2.d.8. Conduct a good training for the young colleagues, and perform self-appraisal and evaluation.
- **3-** Academic Standards
 - Academic Standards of MD Program of forensic medicine and clinical toxicology, approved in department council date 5 / 9 / 2013, and in faculty council no. (35¹) date 16/⁷/2013. (ملحق ۱)

٣ - المعايير الأكاديمية للبرنامج:



4- Reference standards



4- العلامات المرجعية:

a) (۲۰۰۹ المعايير القياسية العامة لبرامج الدراسات العليا (درجة الدكتوراة) (مارس ۲۰۰۹) Academic reference standards (ARS), MD Program (March 2009), which were issued by the National Authority for Quality Assurance & Accreditation of Education NAQAAE (ملحق ۲)

b) External references standards (Benchmarks): المعايير المرجعية الخارجية

External reference points/benchmarks are selected to confirm the

appropriateness of the objectives, ILOs of the program, (۳ ملحق).

- Forensic medicine and toxicology program, Department of Forensic Medicine, University of **Dundee**, 2006. Dundee, Scotland. Tel: Int. code: +44 (1382) 388020; UK code (01382) 388020 <u>www.dundee.ac.uk</u>
- Forensic medicine and forensic sciences program, Department of Forensic Medicine, <u>Faculty of Medicine, Nursing and Health Sciences</u>, Monash University. <u>http://www.med.monash.edu.au/vifm/</u>

(5): Program structure and contents Program duration

- 4 1st part: One Semester (6 months).
- **4** 2nd part: Three Semesters (one & half year).
- **thesis:** Four Semesters (Two years from the beginning of the 2^{nd} part).

Program structure

- Total hours of program : 60 credit hours.
- Theoretical: 28 credit hours
- **Practical:** 12 credit hours
- Logbook: 6 credit hours
- **Thesis****14**teaching hours.
- Compulsory ----- الزامي all courses
- Selective ---- انتقائي none
- Elective---- اختياري--- none

ب - هيكل البرنامج:

5 - هيكل ومكونات البرنامج :
 أ - مدة البرنامج : سنتان و نصف

ج- مستويات ومقررات البرنامج:





الزامي compulsory

الساعات المعتمدة	الكود	المقررات	البند
۱۰ ساعات			الجزء الأول
۲ ساعة	FORE701	۱. تشریح	
۱ ساعة	FORE702	۲. هستولوجی	
۱ ساعة	FORE703	٣. فسيولوجي	
۲ ساعة	FORE704	٤ . باثولوجى	
۲ ساعة	FORE705	 ه. المبادى القانونية للمسؤلية الطبية وأخلاقيات 	
۲ ساعة		المهنية	
	FORE706	 . إحصاء طبي 	
	FODE 505	 ١ الأمراض الباطنة فيما يختص بموضوعات الدراسة 	الجزء الثاني
۲ ساعات	FORE 707	(مقرر علمي وعملي)	مواد التخصص
١٢ ساعة	FORE 708	۲ – ا لطب الشرعي (مقرر علمي وعملي)	
۱۲ ساعة	FORE 709	۳- علم السموم (مقرر علمي وعملي)	
۲ ساعات		حضور ندوات ومؤتمرات وحضور دورات تدريبية	كراسة أنشطة
		تحضير أبحاث إضافية، كتابة ودراسة تقارير طبية شرعية	
١٤ ساعة			رسالة دكتوراه
۲۰ ساعة			الإجمالي

First part (one semester):

a- Compulsory courses.

Course Title	Course Code	NO. c	NO. of Teaching hours per week		
		Theoretical	practical	Total/ W	hours/ One Semester
1- Anatomy	FORE 701	1	3	4	60 hours
2– Histology	FORE 702	1		1	15 hours
3– Physiology	FORE 703	1		1	15 hours
4- Pathology	FORE 704	1	3	4	60 hours
5- Medical ethics	FORE 705	2		2	30
6- Medical statistics	FORE 706	2		2	30



b- Elective courses: none

Second part (3 semesters):

a- Compulsory courses.

Course Title	Course Code	NO. of Teaching hours per week			Total teaching
		Theoretical	practical	Total	hours /
					Three Semesters
1– Forensic medicine	FORE 708	8	12	20	300 hour
2– Clinical toxicology	FORE 709	8	12	20	300 hours
3- General medicine	FORE 707	4	6	10	150 hours
Total:		20	30	50	750 hours

b- Elective courses: none

c- Selective. none

۲ - محتويات المقرات (راجع توصيف المقررات)

٧ - متطلبات الإلتحاق بالبرنامج :

مرفق توصيف المقررات طبقا" للنموذج

Program admission requirements

: مادة (٢٣) : يشترط لقيد الطالب لدرجة الدكتوراه في الطب أو الجراحة أو العلوم الطبية الأساسية أن يكون حاصلا على درجة الماجستير في مادة التخصص بتقدير جيد على الأقل من إحدى جامعات ج • م • ع أو على درجة معادلة لها من معهد علمي أخر معترف به من الجامعة •

🗷 مدة الدراسة لنيل الدكتوراه سنتان ونصف موزعة كا لاتى : •

- جزء أول : علوم أساسية فصل دراسي لمدة ستة شهور (٦ ساعات معتمدة) ومن برسب يعيد مادة الرسوب فقط •
- **الجزء الثاني** : ثلاث فصول دراسية لمدة سنة ونصف (٣٩) ساعة معتمدة يستوفى خلالها الطالب الساعات المعتمدة ثم يسمح لـه بالتقدم لامتحان التحريري وإذا اجتاز الامتحان التحريري بنجاح



يحق له التقدم الى الامتحان الشفهى والعملى والإكلينيكي خلال شهر من تاريخ الامتحان التحريري

- رسالة (١٥ ساعة معتمدة)
- تبدأ الدراسة عند بداية التسجيل تنتهى بامتحان شامل فى نهاية كل أربع فصول دراسية بعد اجتياز الطالب امتحانات الجزء الأول بنجاح يسمح له بتسجيل رسالة لمدة أربعة فصول دراسية تبدأ عند بداية الفصل الدراسى الثانى وتتاقش بعد مرور عامين على الأقل من تاريخ تسجيل الرسالة على أن تكون المناقشة بعد ستة اشهر على الأقل مع اجتياز الامتحان التحريرى والإكلينيكية والشفهى (الامتحان الشامل يمنح الطالب الدرجة بعد مناقشة الرسالة واجتياز الامتحان الشامل .
 - يكون التقدم للقيد لدرجة الدكتوراه مرتين في السنة خلال شهرى مارس وأكتوبر من كل عام

8 - القواعد المنظمة لإستكمال البرنامج :

مادة (٢٤) : يشترط في الطالب لنيل درجة الدكتوراه في الطب أو الجراحة أو العلوم الطبية الأساسية ما يلى :

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

مادة (٢٥) : على الطالب أن يقيد اسمه للامتحان قبل موعده بشهر على الأقل .

- مادة (٢٦) : يشترط لنجاح الطالب فى امتحان الدكتوراه الحصول على الحد الأدنى للنجاح فى جميع الاختبارات المقررة وفى كل جزء من أجزاءها على حدة ذلك بأخذ المتوسط لتقديرات أعضاء اللجنة اذا رسب الطالب فى أى مقرر من المقررات بعد الامتحان فى جميع المقررات •
- مادة (٢٧) : يعقد الامتحان التحريري لدرجة الدكتوراه في شهري نوفمبر ومايو من كل عام لمن يجتاز الامتحان التحريري في نفس الدور يتقدم الامتحان الشفهي والاكلينكي والعملي
- **مادة (** ۲۸) : لا يجوز للطالب أن يبقى مقيدا لدرجة الدكتوراه لأكثر من أريع سنوات دون أن يتقدم لمناقشة الرسالة ويجوز لمجلس الكلية أن يعطى الطالب مهلة لمدة سنتين في حالة قبول العذر •
- مادة (٢٩) : تضاف درجات التحريرى ووصف الحالة لبعضها ويعتبر النجاح والرسوب فى المجموع الكلى للتحريرى (٦٠% على الاقل من الدرجة النهائية للتحريرى) ومن ينجح فى الامتحان التحريرى يصرح له بدخول باقى الامتحانات الإكلينيكية والشفوية والعملية وعدد الرسوب يعيد الطالب الامتحان الشفوى والاكلينيكى ٠

لا يحق للطالب التقدم للامتحان التحريري أكثر من أربع مرات • **مادة (• ٣)** : تبين في شهادة الدكتوراة موضوع الرسالة والمادة أو المواد الاختيارية •





⁴ - Students Assessment Methods

9 -طرق وقواعد تقييم الملتحقين بالبرنامج

ما تقيسة من مخرجات التعلم المستهدفة	الطريقة	م
To assess knowledge and understanding &	Written examination	1
intellectual skills:		I
From 2.a.12.a.10. and		
2. b.12.b.11.		
To assess knowledge and understanding,	Oral examination	
intellectual skills & General & transferable		2
skills		
2.a.12.a.10., 2.b.12.b.11.,		
2.d.12.d.8.		
To assess knowledge and understanding,	Practical (including performing	•
intellectual skills & practical and clinical	autopsy) & clinical examination	3
skills and General & transferable skills:	of intoxicated cases at BPCU	
2.a.12.a.10., 2.b.12.b.11.,		
2.d.12.d. & 2.c.12.c.7.		
To assess knowledge and understanding,	Thesis Discussion	
intellectual skills & practical and clinical		4
skills and General & transferable skills:		
2.a.12.a.10., 2.b.12.b.11.,		
2.d.12.d. & 2.c.12.c.7.		

Final exam. First part

	الحرجة				.1.m.111	
போரை }	إكاينيكي،	ريلمذ	(frages	تعريري	المعيار	المهرور
		30	20	5•	اختبار تحريري مدته ثلابه ساغابه	تشريح
150			20	30	+ احتبار هغمي و (عملي ټشريح)	ھستول <u>و</u> جي
150			20	30	اختبار تحريري مدته ثلابه ساغابت	فسيولوجي
		30	20	5•	+ اختبار شغمی و (مملی باثولوجی)	باثولوجى



13	tern and a						BRAMA UNIVERSITY
	200			40	60	141 4 114 114 114 114 114 114 114 114 1	المبادى القانونية للمسؤلية
				40	60	المتبار تدريري مدتة تلابه ساغانه. + ادتيار هفمه،	الطبية وأخلاقيات المهنية
				40	00		إحصاء طبي
	500	ير بة	إجمالي الد	-	-		

Second part

2 alla

	الدرجة				.1 111		
رويا م عالي الم	عملي، + الصغة التحريحية	<u>يكينياك</u> إ	(station	تحريري	JUAN	المهرور	
600	100 + 100		100	300	اختبار تحريري محته ثلاث ساعات + اختبار هغمي و عملي +اجراء الحغة التشريحية	اللب الدرمي	
600		200	100	300	احتياران تحريريان (محة السموم ساعاتان م الداحد ساعه)	السموي	
					+ اجتبار هذمه، + اجتبار الجليديكم،		
300		100	50	150	₩ <u>₩₩</u> ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	الباطني	
1500	إجمالي الدرجة						

Evaluation of Program:

۱۰ ـ طرق تقويم البرنامج:

Evaluator	Tools	Sample evidence
مقييم داخلى(s) Internal evaluator	Focus group discussion	Reports
	Meetings	
مقييم خارجى(s) External Evaluator	• Reviewing according to external evaluator	Reports
	• Checklist report .	
طلاب السنة النهائية (s) Senior student	مقابلات , استبیان	جميح الطلبة
الخريجون Alumni	مقابلات ،استبيان	لا ټېټل محن ۵۰% محن طلبق
		أخر ۳ حفعاتهم
أصحاب العمل (s) أصحاب	مقابلات ،استبيان	ساهم جيمما قائمم قنيذ
		العمل

سموم الأكلينيكية	رراة الطب الشرعى و ال	توصيف برنامج الدكتو	
طرق أخرى Others	none		
	البرنامج:	التعلم علي مستوي	: استراتيجيات التعليم و
Active lea	rning	التعلم النشط.	١ . استراتيجية
Outcome-based le	نتائج. arning	التعليم المبنى على ال	۲ ـ استراتيجية
Problem-based lear	يل المشكلات. ning	التعليم المبنى على ح	٣ ـ استر اتبجيـة
	8 - •		
التاريخ : / ٢٠١٤/٩	التوقيع	:	المسئول عن البرنامج
13		· · · · · · ·	
	المقررات التابعة للبرا	توصيف ا	
	Program cours	Ses	
First part:			
1- Anatomy			
2- Histology			
3- Physiology			
4- Pathology			
5- Medical ethics			
6- Medical statistics			
Second part:			
1- Forensic medicine			
2- Clinical toxicology			
3- General medicine			
	١٣		





Course Specification

Course title: <u>Anatomy</u> (Code): FORE 701 Academic Year (2013– 2014)

- Department offering the course: Human Anatomy and Embryology
- Major or minor elements of the program: Minor.
- Academic level: First part.
- Date of specification approval:
 - Department council, date 9 / 2013 .
 - Faculty council, date 9 /2013

A) Basic Information:

- Allocated marks: <u>100</u> marks
- Course duration: 15 weeks.
- **Teaching hours:** 4 hours/week = 60 total teaching hours

توصيف برنامج الدكتوراة الطب الشرعى و السموم الأكلينيكية





B) Professional information :

1- Overall Aim of the course :

- To provide basic and specialized information about different parts of the body

- To apply special knowledgments and its integration with other that have relation with the special practice.

- To aware of age sex and attachement of the bone .

- To acquire competence to be teacher , researcher and leader in his field .
- To be aware of number and component of the bone
- To be aware of origin and insertion of muscle and action of muscle .

Intended learning out comes (ILOS).

1- Knowledge and understanding

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

- 1- Define structure of bone, ossific centre, number blood supply of the bone.
- 2- Define age, sex of the bone.
- 3- Describe different parts of the bone .
- 4- Explain muscle of the body and its attachment .
- 5- Describe blood supply of the body.

2- Practical and clinical skills .

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

- Identify different bone .
- Diagnose age, sex of bone.

Professional Attitude and Behavioural skills :

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

- 1- Demenstrate respect for teachers .
- 2- Reflect critically on their own performance and that of others
- 3- Respect discussion with teachers .

2.c. - Intellectual skills:

2.c.1. Distinguish between different bones of body.

2.c.2. Classify bones according to age, sex and race

2.d. General and transferable skills: .4 By the end of the course, students should be able to:





2.d.1. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and skills of his specialty.

2.d.2. Establish life-long self-learning required for continuous professional development in his specialty.

2.d.3. *Work* effectively as a member or leader of a health care team or other professional groups (teach others and evaluate their work).

2.d.4. *Communicate* effectively with physicians, other health professionals, and health related agencies.

Subject	Tutorial / Small group discussion (hrs)	Practical (hrs)	Total (hrs)	% of Total
Osteology "bone"	1 hour	2 hours	3 hours	8.8%
Skeleton : Features, Identification, Age, Sex and Race	1 hour	4 hours	5 hours	8.3%
 * Head & Neck: Scalp and Meninges. Larynx (all about + Age & sex) Vertebral artery Middle meningeal artery 	2 hours	6 hours	8 hours	8.3%
* Thorax: * Lung all + Surface Anatomy * Heart: All + Bl. S & S. A.	1 hour	6 hours	7 hours	3.3%

3- <u>Course contents</u>:



* Abdomen: Just surface anatomy	2 hour	6 hours	8	8.3%
of: Liver, Stomach, Kidney,			hours	
Spleen, Duodenum and Pancreas.				
* Pelvis: Perineum All about +		6 hours	7	3.8%
Evt gonitalia in male and	1 hour	onours	hours	3.070
* Anal canal All about and Ext.				8.3%
genitalia in male and female	1 hour	3 hours	4 hours	
* Male & Female Genital system. "Cross Anat"	1 hour	2 hours	3 hours	3.3%
Lower Limb : Full anatomy (Origin, Course, End, tributary and communication of the superficial & deep veins.	2 hours	5 hours	7 hours	5.5%
III Physical anthropology :	3 hours	5 hours	8 hours	7.7%
TOTAL	15 hours	45 hours	60 hours	100%

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

- 1. Small group discussions: Seminars, case study.
- 2. Tutorials.
- 3. Practical classes: museum specimens,

demonstration (slides photographs and Video

films), models

TEACHING PLAN:

Item	Time schedule	Teaching hours	Total hours			
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Small group	<u>1 h_</u> /week;	15 hours	15
discussions			
Practical	<u>3_</u> hours / _week	45 hours	45
Total	4 hours/week	60 hours	60

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

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.
Practical examination	To assess practical skills.

5-C) TIME SCHEDULE:

Exam	Week
Final exam	At week 24

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
final exam:		
a _Written	50	
b- Practical	30	
c- Oral	20	
Total	100	100%

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- First part exam	Objectively structured questions



5- Final exam:	
a- Written	e.g. select (MCQs) & Supply (Short essay) questions
b- Practical	e.g. Do, identify
c- Oral	e.g. How many sessions
6- Assignments &	e.g. Assignments, projects, practical books etc
other activities	

6- List of references:

6.a. Basic materials:

- e.g. Department book:
- 6.1.2. Museum and Practical books.

6.b. Essential books (text books):

Gray's Anatomy for Student (2012): a standard text book by Richard L.Dark, A. Wayne Vogol and Adam W.M.Michel, 2nd Edition

6.c. Recommended books:

Last's Anatomy(2012) : Chummy, S.S.: Regional and applied. Pub. Churchill

Livingstone, Edinburgh, London, New York. 10th ed

6.d. Periodicals, Web sites, etc:

- 6.d.1.http://www.medscape.com.
- 6.d.2.http://www.pubmed.com.
- 6.d.3.http://master.emedicine.com/maint/cme.asp.
- 6.d.4.http://www.science direct.com.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

• Lecture halls: 2

Course coordinator: prf. Dr. essam eid Date2013





Course title: (Code):

Course Specification Histology FORE 702 Academic Year (2013 – 2014)

- Department offering the course: Histology &Cell Biology
- Major or minor elements of the program: Minor.
- Academic level: First part.
- Date of specification approval:
 - Department council, date 9 / 2013.
 - Faculty council , date **9/2013**.

A) Basic Information:

- Allocated marks: 50 marks
- Course duration: 15 weeks
- **Teaching hours:** 1 hours/week = 15 total teaching hours
- B) Professional information :

I - Overall Aim of the course:

- To provide basic and specialized knowledge about histological structure of different parts of the body.
- To correlate between tissue hitology and related forensic and

toxicology branches.

- To acquire competence to be teacher, researcher and leader in his field





2- Intended learning out comes (ILOS).

2- a. Knowledge and understanding

By the end of the course the graduate will be able to:

2.a.1 Mention the basic principles of structure of different body cells.

2.a.2 **. list** the structure of different body tissue including epithelial and connective tissues.

2.a.3 **Describe** histological structure of body systems especially (CVS and respiratory system).

2.a.4 **Explain** histological structure of nervous system and that of muscular system.

2.b. Intellectual skills:

By the end of the course the graduate will be able to:

2.b.1. Combine the clinical and investigational database to be proficient in clinical problem solving.

2.b.2. Plan for performance development in his practice.

2.b.3. Select the most appropriate and cost effective diagnostic procedures for each problem.

2.b.4. Formulate research hypothesis & questions.

2.c General and transferable skills :

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

- 2.c.1. Retrieve, manage, and manipulate information by all means, including electronic means, in a timely manner to effectively participate in medical seminars and conferences.
- 2.c.2. Use the sources of biomedical information and communication





technology to remain current with advances in knowledge and skills of his specialty.

- **2.c.3.** *Establish* life-long self-learning required for continuous professional development in his specialty.
- *2.c.4. Work* effectively as a member or leader of a health care team or other professional groups (teach others and evaluate their work).

Subject	Small group discussion (hrs.)	Total (hrs.)	% of Total
1- Cytology.	2 hours	2 hours	13%
2- Epithelial tissue.	2 hours	2 hours	13%
3- Muscular tissues.	2 hours	2 hours	13%
4- Nervous tissues	2 hours	2 hours	13%
5- Cardio vascular system.	2 hours	2 hours	13%
6- Bone and Cartilage	2 hours	2 hours	13%
7- Blood	1 hour	1 hour	9 %
8 - Respiratory system.	2 hours	2 hours	13%
TOTAL	15 hours	15 hours	100%

3- Course contents:





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

METHODS USED:

- 1. Small group discussions: Seminars
- 2. Problem solving.

TEACHING PLAN:

Item	Time schedule	Teaching hours	Total hours
Small group teaching / self-learning	<u>1 h</u> /week	15 hours	15
Total	1hour /week	15 hours	15

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

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-C) TIME SCHEDULE:

Exam	Week
Final examination	At week 24 (1 st part)

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
Final exam:		
a _Written	30	60%
b- Oral	20	40%
Total	50	100%





FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
Final exam:	
a- Written	e.g. select (MCQs) & Supply (Short essay) questions
b- Oral	e.g. How many sessions
6- Assignments &	e.g. Assignments, projects, etc
other activities	
<u> </u>	

6- List of references:

6.1. Basic materials:

- e.g. Department book:
- 6.1.2. Museum and Practical books.

6.2. Essential books (text books):

- 6.b.1 Basic Histology : Text And Atlas-text Only
- Luiz Carlos Junqueira And Jose Carneiro

6.3. <u>Recommended books</u>:

6.c.1.. Cell Biology And Histology : Board Review Series (Leslie P. Gartner, James L. Hiatt And Judy M. Strum

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:

Course coordinator: Prof dr omima kamel Date: 9/ 2013





Course title: (Code):

Course Specification <u>Physiology</u> FORE 703 Academic Year (2013 – 2014)

- Department offering the course: Medical Physiology
- Major or minor elements of the program: Minor.
- Academic level: First part.
- Date of specification approval:
 - Department council, date / 9 / 2013.
 - Faculty council , date /9/2013

A) Basic Information:

- Allocated marks: 50 marks
- Course duration: 15 weeks
- **Teaching hours: 1** hours/week = **15** total teaching hours

B) Professional Information:

1- Overall Aim of the Course:

- \circ Introduction of the basic facts of physiology for the medical students.
- Helps the students to understand & interpret many medical problems specially those related to forensic medicine and clinical toxicology.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

2.a.1 list General & specific functions of the body systems.

2.a.2 Explain some pathophysiological aspects underlying the development of common diseases.





2.a.3 Describe the feedback controls and auto regulations that achieve the necessary balances without which we would not be able to live.

2.a.4 summarize the adaptations that occur to maintain life and explaining them on physiological bases.

2.b. Intellectual Skills:

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

- 2.b.1. **Analyze** medical problems related to diagnosis & treatment of physiological problems as: pH, osmolarily, etc....
- 2.b.2. **Proof** scientific phenomena during the practical study.

2.c. General and transferable Skills:

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

2.c.1 **Develop** of the capacity of free discussion of medical problems.

2.c.2 **Establish** life-long self-learning required for continuous professional development.

2.c.3 **Use** the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.

2.c.4 **Retrieve, manage, and manipulate** information by all means, including electronic means.

2.c.5 **Establish** effective interpersonal relationship to Communicate ideas and arguments.

3- <u>Course contents</u>:

Subject	Small group discussion (hrs.)	Total (hrs.)	% of Total

	2 hours	2 hours	14%
 Introduction → body fluid compartments. 			
 2- Autonomic nervous system: Neurotransimitter, control of autonomic flow, neuromuscular junction & excitation, 	4 hours	4 hours	26 %
 3- Skeletal muscle: Excitation – contraction coupling 	2 hours	2 hours	14 %
 4- Respiration → Gas exchange – Gas transport 	3 hours	2 hours	20 %
5- Circulation:	4 hours	4 hours	26%
-Cardiac properties			
-Heart Rate.			
ΤΟΤΑΙ	15 hours	15 hours	100%

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

- 1. Small group discussions: Seminars, Tutorials
- 2. Self-learning.

TEACHING PLAN:



5				LABY DEN
	Item	Time schedule	Teachi ng hours	Tota I hour s
1.	Small group discussions: Seminars, Tutorials	<u>1h</u> /week	15 hours	
2.	S			
	eif-learning			
	Total	15 hours/we ek	15 hours	

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

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-C) TIME SCHEDULE:

Exam	Week
Final exam	at week 24 (end of 1 st part)

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
Final exam :		
a _Written	30	60%
b- Oral	20	40%
Total	50	100%

FORMATIVE ASSESSMENT:





Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
1- First part exam	Objectively structured questions
5- Final exam:	
a- Written	e.g. select (MCQs) & Supply (Short essay) questions
b- Oral	e.g. How many sessions
6- Assignments &	e.g. Assignments, projects, practical books etc
other activities	
- · · · · ·	

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

6.a. Basic materials:

- 6.a.1 Department book:
- 6.a.2. Seminars

6.b. Essential books (text books):

- 6.b.1. Textbook of Medical Physiology, Arthur C. Guyton, John E. Hall.
- 6.b.2 Physiology of Robert M. Berne.
- 6.b.3 Review of Medical Physiology

6.c. <u>Recommended books</u>:

- 6.c.1. Principles of Physiology, Robert M. Berne (Editor), Matthew N. Levy
- 6.c.2 Textbook of Medical Physiology, Walter Boron, Emile L. Boulpaep

6.d. Periodicals, Web sites, etc:

- 6.d.1.http://www.medscape.com.
- 6.d.2.http://www.pubmed.com.
- 6.d.4.http://www.science direct.com.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

• Lecture halls:

Course coordinator: prof. dr. alaa eltelessi Date: 9/2013







(Code):

Course Specification

e: <u>Pathology</u> FORE 704

Academic Year (2013 – 2014)

- Department offering the course: Pathology
- Major or minor elements of the program: Minor.
- Academic level: First part.
- Date of specification approval:
 - Department council, date 9 / 2013 .
 - Faculty council, date 9/2013

A) Basic Information:

- Allocated marks: <u>100</u> marks
- Course duration: 15 weeks.
- **Teaching hours:** 4 hours/week = 60 total teaching hours

B) Professional Information:

1- Overall Aims of the Course:

- To **familiarize** students with fundamental bases of disease processes.
- To **provide** the students with knowledge concerning definition, causes, mechanisms of disease development.
- To **provide** the students with knowledge about alteration of structure "morphological changes", functional changes, and complications of diseases in different body systems.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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





2.a.1. **Discuss** the main disease categories that may affect the body (general pathology) as well as the basic mechanisms underlying these disorders (etiology, pathogenesis & natural history).

2.a. 2. **Describe** the morphologic (gross & microscopic) changes occurring as a result of such disease processes in various organ & system.

2.a.3. **Mention the** fate & complications of the diseases related to medicolegal cases and outline the general management procedures.

2.b. Intellectual Skills:

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

2.b.1. Interpret different autopsy findings on pathological basis.

2.b.2. **Analyze** case scenario of diseases leading to death and their clinical, pathogenesis, morphological, complication aspects.

2.c. Practical and Clinical Skills

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

2.c.1. *Diagnose* different forensic and toxicological conditions depending on pathological finding.

2.c.2. **Write** reports on the different macroscopic and microscopic pathological specimens.

2.c.3. **Utilize** the obtained pathological information to solve forensic problem.

2.d. General and transferable Skills:

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

2.d.1 Use the sources of biomedical information to remain current with the advances in knowledge & practice.

2.d.2 Gather and organize material from various sources (including library, electronic and online resources).

2.d.3. Establish life-long self-learning required for continuous professional

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development.

2.d.4. Establish effective interpersonal relationship to Communicate ideas and arguments.

3- Course contents:

Subject	Small group discussion (hrs.)	Practical (hrs.)	Total (hrs.)	% of Total
1-cell response to injury	0.5 hour	2 hours	2.5 hour	5%
2-tissue deposits	0.5 hour	1 hour	1.5 hour	3%
3-Inflammations	0.5 hour	1 hour	1.5 hour	3%
4-Granulomatus infilammition	0.5 hour	2 hour	2.5 hour	5%
5-Bacterial infection	0.5 hour	1 hour	1.5 hour	3%
6-Stem cells and repair	0.5 hour	2 hour	1.5 hour	3 %
7-viral diseases	0.5 hour	1 hour	1.5 hour	3%
8 - Circulatory disturbances	1 hour	3 hours	3.5 hour	7%
9- Wound healing including Burns	0.5 hour	3 hours	3.5 hours	7%
10-Causes of sudden death in infants and adults	1 hours	3 hours	4 hours	8%
11-Head injury	1 hour	3 hours	4 hours	8%
12- Radiation	1 hour	3 hours	4 hours	8%
13- Disturbance of growth	1 hour	3 hours	4 hours	8%

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1/- Diseases of urinary tract: Renal failure	1 nour	4E hours	4 nours	100%
system: a- Pulmonary edema b- Pulmonary embolism c- Respiratory failure	1 hours	3 nours	4 110015	070
 15- Diseases of central nervous system: Intracranial hemorrhage a- Cerebral embolism b- Cerebral edema c- Cerebral abscess 	2 hours	3 hours	5 hours	10%
 14- Diseases of cardiovascular system: a- Coronary heart diseases b- Heart failure c- Aneurysm 	2 hours	3 hours	5 hours	10%

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

- 1. Small group discussions: Seminars, Tutorials.
- 2. Practical classes: museum specimens

TEACHING PLAN:

Item	Time schedule	Teaching hours
Small group discussions: Seminars, Tutorials	<u>1 h</u> /week	15 hours
Practical	<u>3</u> hours / _week	45 hours
Total	4 hours/week	60 hours







5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

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.
Practical examination	To assess practical skills.

5-C) TIME SCHEDULE:

Exam	Week
Final exam	At end of week 24 (end of 1 st part)

5-D) <u>Weighting System:</u>

Examination	Marks allocated	% of Total Marks
fina exam:		
a _Written	50	
b- Practical	30	
c- Oral	20	
Total	100	100%

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
Final exam:	
a- Written	e.g. select (MCQs) & Supply (Short essay) questions
b- Practical	e.g. Do, identify
c- Oral	e.g. How many sessions
Assignments &	e.g. Assignments, projects, practical books etc
other activities	

6- List of references:





6.a. Basic materials:

• e.g. Department book:

6.1.2. Museum and Practical books.

6.b. Essential books (text books):

6.b.1. Introduction To Human Disease: Pathology And PathophysiologyCorrelations, Leonard Crowley6.b.2 Manual Of Pathology Of The Human Place, Baergen Rebecc

6.c. Recommended books:

6.c.1. harsh-mohan-textbook-of-pathology

6.d. 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

Course coordinator: abdel latef el balshy Date: 9/2013





Course Specification

Course title: Medical ethics

FORE 705

Academic Year (2013 – 2014)

- Department offering the course: Forensic Medicine and Clinical Toxicology
- Major or minor elements of the program: Major.
- Academic level: First part.
- Date of specification approval:
 - Department council, date 9 /2013 .
 - Faculty council , 9/2013

A) Basic Information:

(Code):

- Allocated marks: <u>100</u> marks
- Course duration: 15 weeks
- **Teaching hours: 2** hours/week = **30** total teaching hours

B) Professional Information:

1- Overall Aim of the Course:

- Introduction of the basic facts of medical ethics for the medical students.
- Ability to provide appropriate ethical and professional education necessary for establishment of good communication with patients and colleagues.
- Awareness of new ethical problems have resulted from recent medical practices as cloning, organ transplantation, brain death, euthanasia, embryo research, and AIDS.




2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

2.a.1 Discuss the theories and the principles of medical ethics.

2.a.2 Describe the principles of medico logical aspects of medical practice.

2.a.3 Mention common ethical dilemma and suggest a proper solution.

2.b. Intellectual Skills:

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

2.b.1 **Analyze** different problem of malpractice.

2.b.2 Interpret common medical errors and malpractice.

2.c. General and transferable Skills:

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

2.c.1 **Establish** the relationships between moral, professional, and legal obligations of physicians.

2.c.2 **Develop** the relationships among moral, professional, and legal obligations of physicians, including those involving honesty, and respect for patient well-being, autonomy, dignity and confidentiality.

2.c.3 Establish competency to be teacher, trainer, researcher and





leader in his field.

3- Course contents:

Subject	Small group discussion (hrs.)	Total (hrs.)	% of Total
1- Principles of medical ethics.	3 hours	3 hours	10%
2- Competence and the	3 hours	3 hours	10%
capacity to make decisions.			
3- Informed consent.	3 hours	3 hours	10%
4- Confidentiality and medical	3 hours	3 hours	10%
records.			
5- End- of life issues.	3 hours	3 hours	10%
6- Reproductive issues.	3 hours	3 hours	10%
7- HIV- related issues.	3 hours	3 hours	10%
Sexually transmitted diseases.			
8- Malpractice.	3 hours	3 hours	10%
Doctor/Patient relationship.			
Doctor and society. Doctor/Doctor relationship.			





3			L	AN ALAUNIVERSITY CAN
9-	Experimentation.	3 hours	3 hours	10%
Ethics	of biomedical research.			
10-	Ethics of DNA typing.	3 hours	3 hours	10%
TOTAL		30 hours	30 hours	100%

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

- 1. Small group discussions: Seminars.
- 2. Self-learning.

TEACHING PLAN:

Item	Time schedule	Teaching hours
 Small group discussions: Seminars. Self-learning. 	<u>2 h</u> /week;	30 hours
Total	2 hours/week	30 hours

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

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-C) TIME SCHEDULE:

Exam	Week
Final exam	At the end of week 24 (end of 1st part)





5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
1 st part exam:		
a _Written	60	
c- Oral	40	
Total	100	100%

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
- Final exam:	
a- Written	e.g. select (MCQs) & Supply (Short essay) questions
c- Oral	e.g. How many sessions
Assignments &	e.g. Assignments, projects, practical books etc
other activities	
	·

6- List of references:

6.a. Basic materials:

• e.g. Department book:

6.1.2. seminars of medical etics.

6.b. Essential books (text books):

6.b.1. Health Care Ethics by Eileen E. Morrison and Beth Furlong

6.c. <u>Recommended books</u>:

6.c.1. Textbook of Medical Ethics, Erich H. Loewy.

6.d. Periodicals, Web sites, etc:

6.d.1.http://www.medscape.com.





6.d.2.http://www.pubmed.com.6.d.3.http://master.emedicine.com/maint/cme.asp.

6.d.4.http://www.science direct.com.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

• Lecture halls: 2

Course coordinator:

Prof. Dr. Ola Gabber Haggag

Head of department: Prof. Dr. Marcelle Ramsis Haroun Date: 2013





Course Specification Course title: Medical Statistics (Code): FORE 706 Academic Year (2013 – 2014) 1. Program on which the course is given: Doctorate Degree in Forensic &Clinical Toxicology. 2. Major or minor element of the program: Minor. 3. Department offering the program: Forensic &Clinical Toxicology Department.

- 4. Department offering the course: Public Health & Community Medicine.
- 5. Academic Year/Level: First Part.
- 6. Date of specification approval: department council date /9/2013.

A) Basic Information:

- Allocated marks: <u>100</u> marks
- Course duration: 15 weeks
- **Teaching hours: 2** hours/week = **30** total teaching hours

1- Overall Aim of the Course:

- To provide candidates with Principles of Biostatistics, types of data, methods of presentation of data, types of Epidemiological studies, Sampling, statistical methods& research methods.
- To provide the candidates with the knowledge and skills necessary to practice statistical analytical methods and research methods.
- To enable the candidates to evaluate the health problems.

2- Intended Learning Outcomes (ILOs):

A-Knowledge and understanding:

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

2.a.1. Describe the basics of Principles of Biostatistics, types of data, methods of





presentation of data, types of Epidemiological studies, Sampling, statistical methods and research methods.

B- Intellectual Skills:

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

- 2.b.1 Choose suitable methods for conducting research.
- 2.b.2 **Choose** suitable methods for analysis of data.

2.b.3 **Select** appropriate method for evaluate the health problem.

c. General and Transferable Skills:

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

2.c.1 **Establish** life-long self-learning required for continuous professional development.

2.c.2 **Use** the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.

2.c.3 **Retrieve, manage, and manipulate** information by all means, including electronic means.

2.c.4 **Present** information clearly in written, electronic and oral forms.

- 2.c.4 **Conduct** counseling sessions for prevention & control of different conditions
- for

healthy individuals, for patients as well as their families.

2.c.5 **Establish** effective interpersonal relationship to Communicate ideas and arguments.

3	- Course contents:		
	Topics	Hours of Lectures	ILOs
	1- Types of data	2	A2
	2- Collection of data:		A2,B1,C1,C2,C4,C5
	 Sampling Screening Epidemiological studies 	6	

		MENHA UNIVERSI
3- Summarization of data:		A2,B2,C2
 Measures of central tendency 	4	
 Measures of dispersion 		
4- Presentation of data:		D3,D4
 Tabular presentation 		
 Graphic presentation 	4	
 Mathematical presentation 		
5- Normal distribution curve	2	D3,D4
6- Hypothesis testing	2	D1,D5
7- Analysis of data & tests of significance	4	B2,D3
8- Vital rates	4	A1,B3,D2
9- Ethics of research	2	C2,C3,D6
Total	30	

4- Teaching and learning methods:

- 1. Small group discussions: Seminars &
- 2. selflearning.

5- Students Assessment methods:

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.	

Assessment schedule

Exam	Time
Written exam	After 6 months of registration of the degree.
Oral exam	After the written exam.





Weighting System

Examination	Marks allocated	% of Total Marks
Written	60	60%
Oral	40	40%
Total	100	100%

Examination description

Examination	Description
 Written 	 A two-hour written paper
	composed of short essay-type
	questions and Case study.
 Oral 	• One oral examination station with 2
	staff members (10-15 minutes: 4-5
	questions).

6- List of references:

6.1- Basic materials like Department notebook: *Handouts* of the staff member in the department

6.2- Essential books (text books) like Khalil IF, 1999: Biostatistics, Cairo University

6.3- Recommended books like *Maxcy RL, 2008*: Public health and preventive medicine.6.4- Periodicals, Web sites, etc:

- WHO.int.com
- Pub. Med
- Google
- Science direct

7- Facilities required for teaching and learning:

7.1 Adequate infrastructure: including teaching places (teaching class &teaching hall) provided with comfortable desks, fans, air condition, adequate sources of lighting both natural and artificial and security tools.

7.2 Teaching tools: including screens, black board, white board, data show, computers, laser printer, scanner & copier.

7.3 Computer program: for statistical analysis of data.

- Course coordinator: Prof Dr. Hala Mostafa El Hady
- Date: 9/2013





Course Specification

Course title: Forensic Medicine (Code): FORE 708 Academic Year (2013 – 2014)

- Department offering the course: Forensic Medicine and Clinical Toxicology
- Major or minor elements of the program: Major.
- Academic level: second part.
- Date of specification approval:
 - Department council: /9/2013
 - Faculty council: /9/2013

A) **Basic Information:**

- Allocated marks: <u>600</u> marks
- Course duration: 45 weeks
- **Teaching hours:** 20 hours/week = <u>900</u> total teaching hours

B) Professional Information:

1- Overall Aims of the Course:

- To provide a specialized scientific knowledge and necessary skills essential for the practice of forensic medicine either in living or dead cases.
- To be aware of the running problems in forensic medicine.
- To provide appropriate ethical and professional education necessary for establishment of good communication with patients and colleagues.

2- Intended Learning Outcomes (ILOs):



2.a. <u>Knowledge and understanding:</u> By the end of the course, students should be able to:

- 2.a.1. *identify* death and its phases, death like state, sudden death, brain death, its criteria for diagnosis and its ethics and implication, the cause, mechanism, mode, manner of death, medico legal deaths and the objectives of their investigation and their handling, postmortem changes and their importance in determining the time of death.
- 2.a.2. *Describe* unknown body identification whether living or dead; ages of medico legal importance in Egypt and their estimation, methods of stains identification (blood, seminal and salivary stains), hairs, teeth, and their medico legal importance; DNA typing and their medico legal importance.
- 2.a.3. *Discuss* different types of wounds, wound patterns, mechanisms of death from wounds, injuries due to physical agents (heat, cold and electricity), different types of asphyxia, causes and mechanisms of death associated with surgery and anesthesia, their medico legal aspect and responsibility of the physician.
- 2.a.4. *Explain* different types of sexual offences, methods of initiating pregnancy and their ethics; medico legal aspect of pregnancy, delivery, abortion, and death and injury in infancy and childhood.
- 2.a.5. *Discuss* different types of firearm injuries, transportation injuries and medico legal aspects of traffic medicine.
- 2.a.6. *list* methods of torture and child abuse, care of detainees, and crowed control agents.

2.b. Intellectual Skills:

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

2.b.1. *Interpret* different circumstances, characters of injuries and physical findings in the different studied forensic branches especially (clinical forensic medicine and forensic pathology) to reach proper diagnosis of injured living cases and to reach





cause, mechanism, mode and manner of death in dead cases.

- 2.b.2. *Analyze* case scenario of clinical forensic medicine, forensic pathology and their medicolegal aspects.
- 2.b.3. *Evaluate* risk hazards that could be met during autopsy, forensic examination of living parsons.

2.c. Practical and Clinical Skills

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

- 2.c.1.Diagnose death by different clinical and investigatory methods.
- *2.c.2.Write* death certificate according to the international form of medical certificate of the cause of death.
- *2.c.3. Identify* living, dead individuals, sex and ages from bones and by using the X rays films.
- **2.c.4.** *Identify* different types of injuries and signs of different causes of violent deaths.
- 2.c.5. Examine the assaulted persons and their wounds photographs.
- 2.c.6. Write proper primary, expert and consultant wound reports.
- 2.c.7. Perform postmortem examination (autopsy = الجراء الصفة التشريحية) and write a detailed autopsy report at expert and consultant levels.

2.d. General and transferable Skills:

By the end of the course, students 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, manage, and manipulate information by all means,





including electronic means.

- **2.d.4.** *Communicate* clearly, sensitively and effectively with patients and their relatives, and colleagues from a variety of health and social care professions.
- 2.d.5. Establish good relations with other health care professionals regardless their degrees or rank.
- 2.d.6. Cope up with difficult situations as breaking news.
- **2.d.7. Demonstrate** respect to all patients irrespective of their socioeconomic levels, culture or religious beliefs using appropriate language to establish a good patient-physician relationship.

Subject	Tutorial / Small group discussion (hrs)	Practical (hrs)	Total (hrs)	% of Total
1_General forensic and terminology(forensic	5			8.8%
medicine, forensic science, autopsy, etc)				
2_death(definition, diagnosis, death	15	20		8.3%
certificate,etc)				
3_Identification(of dead and	30	50		8.3%
dead, bones, physical evidence)				
4-Unexpected and sudden natural death	10			3.3%
5_Wounds (definition, doctor duty, mechanism)	20	50		8.3%
6_Regional injuries (head,neck,chest and abdomen)	30	50		3.8%
7_Firearm injuries (types of firearm ,range, direction of firing,etc)	30	50		8.3%
8_Thermal injuries (heat, cold and electricity)	30	40		3.3%
9_Transportation injuries & traffic medicine.	30			5.5%
10_Violent asphyxia(classical signs, types	50	40		7.7%
immersion and drowning)	10			
11_Deaths associated with surgery and	10			3.3%
anesthesia				

3- <u>Course contents</u>:





12_Sexual offences (rape, indecent assault and homosexual offences)	30	40		7.7%
13_Pregnancy, Delivary and Abortion	40	40		6.1%
14_Death and Injury in infancy & childhood	40	40		5.5%
15- torture, care of detainees, death in custody and crowd control	50	50		
TOTAL	360	540	900	100%

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

- Small group discussions
- Problem solving.
- Self-learning.
- Practical classes/ Autopsy اجراء الصفة التشريحية

TEACHING PLAN:

	NO. of hours per week		Total teaching
Method of teaching	Theoretical	Practical/ autopsy	hours /45
			Weeks
Small group discussions/ Self-learning/ Problem solving	8		360 hours
Practical classes/ Autopsy اجراء الصفة التشريحية		12	540 hours
Total:		20	900 hours

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

5-B) Assessment TOOLS:

Tool

Purpose (ILOs)



Written examination	To assess knowledge and understanding & intellectual skills 2.a.12.a.6, 2.b.12.b.3
Oral examination	To assess knowledge and understanding, general and transferable: 2.a.12.a.6, 2.b.12.b.3, 2.d.12.d.7
Practical examination (اجراء الصفة التشريحية)	To assess knowledge and understanding & intellectual skills 2.a.12.a.6, 2.b.12.b.3 practical skills: 2.c.12.c.7.

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

Exam	Week
Second part examination	At week 72 (end of 2 nd part)

5-D) <u>Weighting System:</u>

Examination	Marks allocated	% of Total Marks
Final exam:		
a _Written	300	
b- Practical / اجراء Autopsy الصفة التشريحية	200 (200 for performing autopsy and writing autopsy report, 200 for write detailed medicolegal report on different forensic specimens)	
c- Oral	100	
Total	600	100%

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.





5-E) Examinassions description:

Examination	Description
Final exam:	
a- Written	e.g. select (MCQs) & Supply (Short essay) questions, case study
b- Practical	e.g. perform autopsy اجراء الصفة التشريحية and write autopsy report, write detailed medicolegal report on different forensic specimens
c- Oral	e.g. How many sessions
6- Assignments& other activities	e.g. Assignments, projects, practical books etc

6- List of references:

6.1. Basic materials:

6.2.1. Forensic Pathology: Bernard Knight 2004.

6.2. Essential books (text books):

6.2.2. Forensic Pathology: Daimio & Daimio 2002.

6.3. <u>Recommended books</u>:

- 6.3.4. Clinical forensic medicine: Margate M. 2007.
- 6.3.5. Forensic Medicine An illustrated reference.

6.4. <u>Periodicals, Web sites, etc</u>:

- 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:

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

Course coordinator:

Prof. Dr. Ola Gabber Haggag Date: 2013



Course Specification Course title: Clinical Toxicology (Code): FORE 709 Academic Year (2013– 2014)

- Department offering the course: Forensic Medicine and Clinical Toxicology
- Major or minor elements of the program: Major.
- Academic level: second part.
- Date of specification approval:
 - Department council, date / 9 /2013.
 - Faculty council, date / 9 /2013.

A) **Basic Information**:

- Allocated marks: <u>600</u> marks
- Course duration: 45 weeks
- **Teaching hours:** 20 hours/week = <u>900</u> total teaching hours

B) Professional Information:

1- Overall Aims of the Course:

- To provide the candidate with specialized knowledge and skills necessary for practicing clinical toxicology as a consultant doctor.
- To develop new ways, tools and applications for diagnose and manage intoxicated patients.
- To provide appropriate ethical and professional education necessary for establishment of good communication with patients and colleagues.

2- Intended Learning Outcomes (ILOs):

2.a. <u>Knowledge and understanding:</u> By the end of the course, students should be able to:



- 2.a.1. *Define* different general toxicological principles as electrolyte and acid base balance, cardiovascular, respiratory and neurotransmitters etc....).
- 2.a.2. *Describe* different classes of common toxic substances and environmental pollutants, circumstances of intoxication, toxic dose, toxic kinetics.
- 2.a.3. *Discuss* the clinical picture, different diagnosis of toxicity of different drugs and toxic substances.
- 2.a.4. *Explain* general management of poisoned patient (alert and comatose) and antidotal measures for different drugs and toxic substances.
- 2.a.5. *Mention* medico legal aspect of dependence; different drugs and substances of dependence and abuse.

2.b. Intellectual Skills:

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

2.b.1. *Interpret* common ethical dilemmas and suggest a proper solution in the field of clinical toxicology.

- 2.b.2. *Analyze* case scenario of intoxicated patient and formulate treatment plan for cases of acute, chronic and drug of dependence.
- 2.b.3. *Design* a management strategy for treatment of studied toxic cases either acute, chronic intoxications or drug of dependence.

2.c. Practical and Clinical Skills

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

2.c.1. Write toxicological reports at consultant level of intoxicated

cases and on museum specimens.

2.c.2. Take a detailed medical history from intoxicated cases.2.C.3. *Perform* proper physical examination of the intoxicated





patients.

2.c.4. Diagnose different cases of poisonings and intoxications using

different methods of diagnosis including laboratory investigations.

- 2.c.5. *Manage* different toxicological cases, either acute or chronic and that of drug dependence, through doing the followings:
 - **Apply** ABC (patent airway, breathing and circulation) for life saving of patients.
 - **Perform** gastric lavage.
 - **Insert** Ryle tube.
 - **Insert** endotracheal tube.
 - **Perform** ECG monitoring.

2.d. General and transferable skills:

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

- **2.d.1.** *Retrieve*, manage, and manipulate information by all means, including electronic means, in a timely manner to effectively participate in medical seminars and conferences.
- 2.d.2. Use the sources of biomedical information and communication technology to remain current with advances in knowledge and skills of his specialty.
- 2.d.3. Establish life-long self-learning required for continuous professional development in his specialty.
- 2.d.4. Work effectively as a member or leader of a health care team or other professional groups (teach others and evaluate their work).
- 2.d.5. Communicate effectively with physicians, other health professionals, and health related agencies.
- **2.d.6.** *Demonstrate* compassion, integrity, and respect for all patient's rights and treat all patients equally regardless to their believes, culture and behavior.





3- <u>Course contents</u>:

Subject	Tutorial / Small group discussion (hrs)	Practical/ Clinical (hrs)	Total (hrs)	% of Total
1_General toxicology (classification of poisons, general toxicological principles as electrolyte and acid base balance, cardiovascular, respiratory and neurotransmitters etc)	10	30		
2_General management of poisoned patients	40	60		
3_Medicinal poisons (analgesics, sedative and others)	50	60		
4_Corrosives(acids and alkalies)	20	20		
5_Heavy metals (lead, arsenic and others)	30	10		
6_Pesticides (insecticides,rodentici des and others)	50	50		
7_Gaseous poisoning (suffocating gases, irritating gases and asphyxiant)	50	30		
8_Food poisoning	20	40		
9_Animal poisoning	10	10		
10_Alcohols and drugs of dependence and abuse (medico legal aspects of dependence,ethanol,etc)	60	150		
11_Miscellaneous poisons	20	20		
TOTAL	360	450	900	100%

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





- Small group discussions: museum specimens, Seminars, case study.
- Self-learning.
- Clinical visit to hospital emergency department.
- Clinical visit to poison control center.
- Practical classes

TEACHING PLAN:

Course Title	Course Code	NO. of hours per week			Total teaching
		Theoretical	practical	Total	hours /45 weeks
Clinical toxicology	FORE 709	8	12	20	900 hours

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

5-B) Assessment TOOLS:

Tool	Purpose (ILOs)
Written examination	2.a.12.a.5.,
	2.b.12.b.3.
Oral examination	2.a.12.a.5., 2.b.12.b.3. 2 d 1 2 d 6
Practical examination	2.c.12.c.5.

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

Exam	Week
Second part examination	At the end of week 72

5-D) <u>Weighting System:</u>

Examination	Marks allocated	% of Total Marks



exam: a _Written b- Practical / clinical c- Oral	300 200 100	
Total	600	100%

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

Examination	Description
Final exam: a- Written	e.g. select (MCQs) & Supply (Short essay) questions, case study
b- Practical	manage toxicological cases at BPCU, Write detailed toxicological sheets and reports on toxic cases and museum specimens
c- Oral	e.g. How many sessions

6.1. <u>Basic materials:</u>

- e.g. Department book:
- 6.1.1.Forensic medicine and Toxicology.
- 6.1.2. Museum and Practical books.

6.2. Essential books (text books):

- 6.2.2.Principals of clinical toxicology.
- 6.2.3. Emergency Toxicology: Peter Viccellio.
- 6.2.4. Elenhorn's Medical Toxicology

6.3. <u>Recommended books</u>:

- 6.3.1. Gold franks' emergency toxicology.
- 6.3.2. Lewis' Dictionary of Toxicology.
- 6.3.3. Biological weapons threat& control.

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
- Department lab
- Benha Poison control unite(PCU)

Course coordinator: Prof. Dr. Ola Gabber Haggag

Head of department: Prof. Dr. Marcelle Ramsis Haroun

Date: 9/ 2013





Course Specification

Course title: <u>General medicine</u> (Code): FORE 707 Academic Year (2013 – 2014)

• Department offering the course: General medicine

- Major or minor elements of the program: Minor.
- Academic level: second part.
- Date of specification approval:
 - Department council, date / 9 /2013 .
 - Faculty council, date /9/2013

A) Basic Information:

- Allocated marks: <u>300</u> marks
- **Course duration:** 45 weeks
- **Teaching hours:** 10 hours/week = 450 total teaching hours

1- Course Aims:-

- To provide good basic scientific knowledge about common medical diseases in studied medical branches (cardiovascular-respiratorygastrointestinal- etc.....)
- To accept sufficient clinical skills how to take history of the patient how to examine different systems of the body with stress on data help in diagnosis.
- To correlate between different studied medical disease and their related toxic and forensic subjects

2-Intended Learning Outcomes:-

2.a. Knowledge and understanding:





2.a.1 Mention causes and mechanisms of sudden unexpected deaths, the methods used in their diagnosis and their medicolegal importance.

2.a.2 Define different nephrotoxic and hepatotoxic agents.

2.a.3 Explain different pathological lesions that could be detected during autopsy.

2.a.4 Explain basis scientific knowledge about diagnosis of toxicological cases.

2.a.5 Enumerate the principles that govern ethical decision making in clinical practice as well as the medicolegal aspects of medical malpractice.

2.a.6 Discuss the pathology of different diseases which help us in decision making in cases of sudden natural deaths.

2.a.7 List the signs and symptoms of different toxicological cases and how to differentiate between them and other medical conditions.

2.b Intellectual skills:

2.b.1. Interpret the clinical and investigational database to be proficient in clinical problem solving.

2.b.2. Analyze different technical skills that could help us during diagnosis of different toxicological cases.

2.b.3. Demonstrate and Select the most appropriate and cost effective diagnostic procedures for each problem.

2.b.4. Analyze case scenarios to set an approach to solve clinical problems.

2.c Practical & Clinical skills:

2.c.1. Diagnose the toxic coma and differentiate between it and other medical causes of coma.

2.c.2. Perform physical examination of different systems successfully.





2.c.3. Take a detailed medical history of patients.

2.c.4. Establish different investigatory tools that help us in their practical field.

2.c.5. Perform the different technical skills essential for diagnosis and management of toxicological cases.

2.d. General and Transferable skills:

2.d.1. Manage effectively as a member or a leader of an interdisciplinary team.

2.d.2. Maintain the rules & regularities for evaluation of performance of others.

2.d.3. Utilize life-long self-learning required for continuous professional development

2.d.4. Utilize the sources of biomedical information and communication technology to remain current with advances in knowledge and practice.

2.d.5. Retrieve, manage, and manipulate information by all means, including electronic means.

2.d.6. Manage Learning plan to others & test their performance.

2.d.7. Maintain the principles of statistical methods for collection, presentation & analysis of all types of data.

3- <u>Course contents</u>:

Subject	Small group discussion (hrs.)	Practical (Hrs.)	Total (Hrs.)	% of Total

	و السموم الأكلينيكية	ج الدكتوراة الطب الشرعي	توصيف برنام		
 1- CV	S:	30 hour	45 hour	75 hour	16.6%
1Sy	mptoms &	10 hour			
Sign of	C.V diseases.	10 hour			
2Ex Investig	aminations& ations.				
- HE/	ART FAILUR	10 hour			
3. dys	rrythmia				
		201			4.6.69/
2 - RES	SPIRATORY	30 hour	45 hour	75 hour	16.6%
SYSTEM	1:				
1. Syn Sign of	nptoms & Respiratory	10 hours			
disease	S.	10 hours			
2Ex Investig	aminations & ations.	5 hour			
3Dr Toxins i respirat	ug and nduce cory failure.	5 hour			
4. Pul edema.	monary				



2.111		و السموم الأكلينيكية	توصيف برنامج الدكتوراة الطب الشرعي و				
And the second second	3-	ICU	30 hour	45 hour	75 hour	16.6%	
	-(10 hour				
	-B -C	COMA	10 hour				
			10 hour				
-	4-	RENAL FAILURE:	10 hour	15 hour	25 hours	5.5%	
-	5-	Hepatic failure	10 hour	15 hour	25 hours	5.5%	
-	6- di	Electrolyte sturbance	10 hour	15 hour	25 hours	5.5%	
	7- El D	ACID-BASE and ECTROLYTE ISTURBANCE	10 hour	15 hour	25 hours	5.5%	
-	8- m	Drugs induced etabolic disease	10 hour	15 hour	25 hours	5.5%	

S and a second sec	السموم الأكلينيكية	الدكتوراة الطب الشرعى و	توصيف برنامج		
9-	Drug induced	20 hour	30 hour	50 hours	11%
ble	ood diseases			licaro	
3-	Anomia	10 hour			
a-	Allellila	10 hour			
b-	Bleeding				
	diseases				
10-	Drug induced	20 hour	30 hour	50 hours	11%
GI	T diseases				
2-	Gastric ulcor	10 hour			
a-	Gastric dicer	10 hour			
b-	Diarrhea				
TOTAL		180 hours	270hours	450 hours	100%

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

- 1. Small group discussions: Seminars, case study.
- 2. Problem solving.
- 3. Self-learning.
- 4. Clinical visit to hospital emergency department.
- 5. Clinical visit to poison control center.

TEACHING PLAN:

ltem	Time schedule	Teaching hours	Total hours
Small group discussions	<u>4 h</u> /week;	180 hours	





			HA UNI
Clinical rounds	<u>6</u> hours /week	270 hours	
Total	10 hours/week	450 hours	

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA: Faculty bylaws

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.
Practical examination	To assess practical skills.

5-C) TIME SCHEDULE:

Exam	Week
Final examination	At end of week 72 (2 nd part)

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
Final examination:		
a _Written	150	
b- Clinical	100	
c- Oral	50	
Total	300	100%

FORMATIVE ASSESSMENT:

Student knows his marks after the Formative exams.

5-E) Examinassions description:

|--|





Final exam:	
a- Written	e.g. select (MCQs) & Supply (Short essay) questions,
	case study
b- Practical	e.g. Take history. Perform physical exam., write full
	clinical sheet.
c- Oral	e.g. How many sessions
Assignments &	e.g. Assignments, projects, practical books etc
other activities	

6- List of references:

6.a. Basic materials:

e.g. Department book:6.1.2. department seminars

6.b. Essential books (text books):

- 6.b.1. Davidson of internal medicine
- 6.b.2 Kumar of medicine
- 6.b.3 Harrison's Principles of Internal Medicine
- 6.b.4 gale encyclopedia of medicine

6.c. <u>Recommended books</u>:

- 6.c.1. oxford of medicine
- 6.c.2 Merck Manual
- 6.c.3 Mariks Primer of Differential Diagnosis

6.d. Periodicals, Web sites, etc:

- 6.d.1.http://www.medscape.com.
- 6.d.2.http://www.pubmed.com.
- 6.d.3.http://master.emedicine.com/maint/cme.asp.
- 6.d.4.http://www.science direct.com.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

Lecture halls:

Course coordinator: prof dr attef ibraheem Date: 2013





الملحقات:

ملحق ١: Academic Standard of the Program العليا الصادرة عن الهيئة. ملحق ٢: المعايير القياسية العامة للدراسات العليا الصادرة عن الهيئة. ملحق 3: Benchmarks (المعايير المرجعية الخارجية) ملحق 4: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة. ملحق ٥: مصفوفة البرنامج مع المعايير الأكاديمية للبرنامج. ملحق ٦: مصفوفة المقررات مع البرنامج

ملحق ۱ Academic standard of the program

جامعة بنها كلية الطب قسم الطب الشرعي و السموم الأكلينيكية

Academic Reference Standards (ARS) for MD Degree in Forensic Medicine and Clinical Toxicology

1. Attributes of gratitude:

- 1.1. Demonstrate competency and mastery of basics, methods and tools of scientific research and clinical audit in forensic medicine and clinical toxicology.
- 1.2. Have continuous ability to add knowledge new developments to forensic medicine and clinical toxicology through research and publication
- 1.3. Appraise and utilize scientific knowledge to continuously update and improve forensic medicine & clinical toxicology practice and relevant basic sciences.
- 1.4. Acquire excellent level of medical knowledge in the basic biomedical, clinical, behavioral and clinical sciences, medical ethics and apply such knowledge in patient care in forensic medicine and clinical toxicology.
- 1.5. Demonstrate in depth awareness of public health and health policy issues and share in system-based improvement of health care.
- 1.6. Identify and create solutions for health problems in forensic medicine and clinical toxicology.
- 1.7. Acquire an in depth understanding of common areas of forensic medicine

and clinical toxicology from basic clinical care to evidence based clinical application, and possession of skills to manage independently all problems in these areas.

- 1.8. Function effectively to provide patient care that is appropriate, compassionate for dealing with health problems and health promotion.
- 1.9. Use recent technologies to improve his practice in forensic medicine and clinical toxicology.
- 1.10. Demonstrate leadership competencies including interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork with other health professions, the scientific community and the public.
- 1.11.Master decision making capabilities in different situation related to forensic medicine and clinical toxicology.
- 1.12. Employee the available medical data effectively obtained during diagnosis of different forensic and toxicological conditions, develop them and find new medical resources.
- 1.13.Demonstrate awareness of his role in community development and environmental preservation.
- **1.14.** Show model attitudes and professionalism.

1.15. Function as teacher in relation to colleagues, medical students and other health professions with concomitant lifelong learning and maintenance of competence and ability for continuous medical education in forensic medicine and clinical toxicology.

2. Academic Standards:

2.1. Knowledge and understanding:

By the end of MD program, candidate should be able to recognize and understand the followings:

- **2.1.1.** Recent advances, areas under research as well as the basic principles and theories in the field of forensic science, clinical toxicology and analytical toxicology.
- **2.1.2.** Scientific research ethics, research methodology & research design; basic including principles of research, how research is conducted, evaluated, explained to patients, and applied to patient care.
- **2.1.3.** Legal and medicolegal aspects in practice of clinical toxicology and forensic medicine as well as the medical ethics and responsibility.
- **2.1.4.** Principles and basic concepts of quality in professional practice including planning, improvement of performance and control of practicing outcomes.
- **2.1.5.** Knowledge related to environmental development, patient safety, safe occupational practice, serving communities and research results in improving public health outcomes.

2.2. Intellectual skills:

By the end of MD program, candidate should be able to recognize and mastering the following skills:

- **2.2.1.** Medical data analysis, interpretation, evaluation and proper therapy choice.
- **2.2.2.** Medical problem solving and Evidence-based medicine according to the available medical data.2.2.9
- **2.2.3.** Participation in research development and innovation.
- **2.2.4.** Scientific paper reviewing and editing.
- **2.2.5.** Risk assessment in medical practice.
- **2.2.6.** Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology.
- **2.2.7.** Decision making skills in different professional situations.

- **2.2.8.** Development, innovation and medical breakthrough.
- **2.2.9.** Evidence based discussion.

2.3. Practical/Professional skills:

By the end of MD program, candidate should accept & apply the following skills:

- **2.3.1.** Professionalism and up to date medical practice in the field of forensic medicine and clinical toxicology.
- **2.3.2.** Medical and medicolegal reports writing and evaluation.
- **2.3.3.** Ability to investigate and evaluate their diagnostic and investigational tools, to continuously improve patient care based.
- **2.3.4.** Effective use of Internet Technology and healthcare information system in medical practice and patient medical records to optimize learning; and participate in the education of patients, families, students, residents and other health professionals.
- **2.3.5.** Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology practice.

2.4. General and transferable skills:

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

2.4.1. Effective Interpersonal and communication skills that result in the exchange of information and collaboration with patients, their families, and health professionals.

2.4.2. Use of Internet Technology and healthcare information system in medical practice.

2.4.3. Teaching and evaluation skills of the others as senior staff.

2.4.4. Self-appraisal and needs evaluation.

2.4.5. Accessibility to specialty-specific and other appropriate reference materials in print or in electronic format.

2.4.6. Teamwork/leadership.

2.4.7. Time management and meeting organization.

اعتماد مجلس القسم رقم (٢٣٥) ، بتاريخ ٩/٩ / ٢٠١

رؤيس مجلس القسم
ملحق ٢ : المعايير القياسية العامة لبرامج قطاع الدراسات العليا

برامج الدكتوراة

وصيانتها

٢-٤-٢ العمل في فريق وقيادة فرق العمل ٢-٤-٧ ادارة اللقاءات العلمية والقدرة على ادارة الوقت

ملحق 3: Benchmarks (المعايير المرجعية الخارجية)

Department of Forensic Medicine, University of Dundee, Dundee, Scotland Tel: Int. code: +44 (1382) 388020; UK code (01382) 388020

Fax: Int. code: +44 (1382) 388021; UK code (01382) 38802

Forensic Medicine programme Guide

What the course is

The Master of Forensic Medicine is a 1-year taught masters course designed primarily for overseas medical graduates. It may be suitable also for dental graduates, and for graduates in nursing or the biological sciences who have already completed a postgraduate degree such as an

MSc or a PhD. The philosophy of the programme is to foster the development of medicolegal expertise founded in current scientific knowledge and devoid of bias. The course addresses those aspects of forensic medicine and science which are most frequently the subject of expert testimony in the courts. The intention is to provide postgraduate students with core knowledge and intellectual skills in forensic medicine.

The course may be taken full-time over 12 months or part-time over 24 months. The course begins in mid-September, at the start of the university academic year. (The precise dates of the university academic year can be found on the university website). Students should plan on attending at the university during Freshers' Week, which is the week immediately before the

start of the first semester. The course follows the usual university semester dates with a Christmas vacation of four weeks and an Easter vacation of three weeks.

Teaching is through lectures, small group seminars in which the students are required to make Powerpoint presentations, and one-to-one case-based teaching on medico-legal autopsy cases.

All of the teaching materials, including the course and module guides, the lecture schedules, the lecture notes and assignments are provided on a computer-based system (Blackboard). Each student has personal desk space with computer, printer and internet access at all hours, seven days a week. There is also access to the Centre library at all hours, seven days a week.

COURSE AIMS AND OBJECTIVES

This one-year taught Masters course stands alone with no prerequisite course requirements other than a basic degree in medicine that is MB, ChB, or an equivalent qualification. The philosophy

of the programme is to foster the development of medico-legal expertise founded in current scientific knowledge and devoid of bias. The course addresses those aspects of forensic medicine and science which are most frequently the subject of expert testimony in the courts.

The intention is to provide postgraduate students with core knowledge and intellectual skills in forensic medicine.

After completing this course the successful candidate will:

1. Have a knowledge and understanding of forensic medicine principles, concepts and terminology

2. Have an understanding of related applications of forensic science

3. Be able to apply their knowledge and skills to accurately observe and document medicolegal findings

4. Be able to develop and critique medico-legal opinions based upon current literature **SYLLABUS**

The MFM course comprises three modules. There are two compulsory taught modules, the one

in forensic medicine and the other in forensic science. The third module which makes up the course may be either a literature review dissertation or alternatively a research dissertation based upon a small research project.

The overall aim of the **forensic medicine module** is to provide an integrated working knowledge of the main subject areas within forensic medicine. The more detailed learning outcomes of the module and the listing of lecture topics are set out in an appendix to this document (Appendix 1). The forensic medicine module is delivered through lectures, some of which are discussion-based requiring student participation. The lecture material is illustrated with case examples. Each lecture is of two hours and there are 15 lectures in all. In addition there is case-based one-to-one teaching in the mortuary involving external examination of deceased and post mortem dissections. Students are required to complete records of learning on a minimum 50 external examinations and 50 post mortem dissections. The one-page record of learning sheets follow a similar format to those used by the Royal College of Pathologists for the training of forensic pathologists in the UK. Students are required to submit photocopies of these sheets as part of the course requirements. In addition there are four written essay type assessments which require the development of medico-legal opinions in fictionalised cases. There is available on Blackboard a detailed module guide for the forensic medicine taught module together with the lecture schedule, lecture notes, teaching notes on the medico-legal autopsy, the record of learning sheets, the four assignments and examples of medico-legal opinions. Students will find clear information regarding the scheduling of all assessments, including submission dates for coursework within the module guide. Feedback is provided to students on all assessed work and is scheduled into the lecture series (see Appendix). Students may request additional individual feedback from the module lecturer at any time by contacting the lecturer via email through Blackboard. The overall aim of the **forensic science module** is to develop an understanding of applications

of forensic science related to the practice of forensic medicine. The more detailed learning outcomes of the module and the listing of seminar topics are set out in an appendix to this

document (Appendix 2). The forensic science module is delivered through small group seminars

in which students are required to make Powerpoint presentations on allocated topics detailed in

the module guide. These presentations form the basis of class discussions. Presentations are assessed in relation to content, focus and style. Seminar presentations and student participation

in the seminars count for 50% of the final mark for the forensic science module. Each seminar is of two hours and there are 10 seminars in all. Teaching is enhanced using computer-based fictional case scenarios and internet-linked material for individual study. There is available on

Blackboard a detailed module guide for the forensic science taught module together with the

seminar schedule, a listing of relevant references, student seminar tasks, example Powerpoint

presentations and advice on how to prepare such a presentation, fictional case scenarios and

internet links to sites with relevant teaching material. Assessment is by course work with seminar presentations and participation in the seminar counting for 50% of the final mark. There

are two written essay type assignments each counting for a further 25% of the module final

mark. Students will find clear information regarding the scheduling of all assessments, including

submission dates for coursework within the module guide. Feedback is provided to students on

all assessed work and is scheduled into the seminar series (see Appendix). Students may request

additional individual feedback from the module lecturer at any time by contacting the lecturer

via email through Blackboard.

The third module is either a literature review dissertation or a research dissertation based

upon a short research project. The majority of students undertake a literature review dissertation. The literature review module intends to provide the student with the ability to retrieve, critically review published literature and produce an accurate and balanced synthesis.

The subject matter of the review dissertation is agreed between the course organiser and the individual student within 4 weeks of the start of the MFM programme. The selection of the subject matter takes into account current issues in forensic medicine, the interests of the student,

and any particular medico-legal issues specific to the area of the world in which the student intends to practice. A first draft of a significant part of the review dissertation must be submitted in the first week of classes following the New Year holiday break. The alternative option, the research dissertation, aims to provide the necessary skills to plan, execute and write-up a

research project. There is one-to-one teaching on the project and developing a literature review around the subject matter of the project. There are limited opportunities to undertake research projects and students who wish to do so should raise the matter no later than the first few weeks

of the course, and preferably prior to entering the course. Feedback on literature review and research projects is provided orally to students on an individual basis within 2 weeks of submission of any written work. Students may request additional individual feedback from the module lecturer at any time by contacting the lecturer via email through Blackboard

LEARNING OUTCOMES

By the end of the course, students should:

1. A detailed and critical knowledge and understanding of the science and art of forensic medicine

2. A critical awareness of current issues in forensic medicine

3. A critical understanding of the application of forensic science

4. The ability to interpret forensic medical evidence with objectivity and balance

5. The ability to retrieve, critically review published literature and produce an accurate and balanced synthesis

6. The ability to communicate with peers and more senior specialists orally and in writing

7. The ability to use a wide range of software to support and enhance the above

8. The ability to take responsibility for their own work and to exercise substantial autonomy and initiative in a learning environment

RECOMMENDED TEXTS

The prescribed course texts are listed in the forensic medicine and forensic science module

guides. Students are advised that a sufficient number of these texts are available in the Centre

library for the use of students. These texts may not be removed from the library and are available at all hours, seven days a week. Consequently students may choose not to purchase

their own copies of these texts, some of which are expensive.

ATTENDANCE & PARTICIPATION

Attendance at every tutorial meeting and seminar (subject to illness or other good cause) is required if a student is to meet the standards of attendance and participation. If a student fails to

attend tutorials or seminars, absence will be noted on the student record and so be a consideration at any stage where decisions about progress and future are being made and when references are being prepared. A student may be required to do additional work to compensate

for absence (whatever the reason for the absence) and to demonstrate that there has been coverage of the materials and skills which that tutorial or seminar was designed to address. Such work must be completed. If a student has good reason for missing a class, eg illness, the student

can self-certify absence for up to 5 days and should also inform the module organiser so that this

can be noted. If an illness results in absence for more than 5 days, students must go to their doctor for confirmation of the illness and obtain a medical certificate signed by the GP. Medical certificates should be sent to the Centre office who will inform others as appropriate. Please note, however, that self-certification of illness is not permitted in relation to late submission of assessments.

ASSESSMENT

The individual coursework assignments provide formative assessment but also contribute towards a summative statement of achievement. Formative assessment is designed to provide students with feedback on progress and inform development. Summative assessment provides a measure of achievement or failure made in respect of a student's performance in relation to the intended learning outcomes of the programme. The intended learning outcomes for the course as

a whole are set out above and for the individual modules are set out as appendices to this document (see Appendices1-3). Information on the types and number of assignments is given in

the section on the syllabus above, and an overall outline of the timetable of work and assessments is given in an appendix to this document (Appendix 5). Students will find clear information regarding the scheduling of all assessments, including submission dates for coursework within the individual module guides. This information is provided at the start of the

programme to enable students to plan and prepare effectively. Feedback is provided to students

on all assessed work and is scheduled into the lecture and seminar series in forensic medicine

and forensic science. Feedback on literature review and research projects is provided orally to

students on an individual basis within 2 weeks of submission of any written work. This feedback

is intended to promote learning and facilitate improvement. Students may request additional

individual feedback from any of the module lecturers at any time by contacting them via email

through Blackboard.

Assessment details are given in the individual module guides and have been outlined above. If,

for whatever reason, you do not complete the assignment(s) for a module you will be deemed to

have a nil mark for that element of the module though the circumstances of your noncompletion

will be considered by the board of examiners.

APPENDIX 1: FORENSIC MEDICINE MODULE

Intended learning outcomes

Knowledge and Understanding:

 $\cdot\,$ A detailed and critical knowledge and understanding of the science and art of forensic medicine

• A critical awareness of current issues in forensic medicine **Skills:**

 $\cdot \,$ The ability to apply their knowledge to accurately observe and document medico-legal findings

• The ability to interpret forensic medical evidence with objectivity and balance

• The ability to communicate with peers and more senior specialists orally and in writing

• The ability to concisely and cogently critique medico-legal opinions based upon current medical literature

Lecture topics:

1. Introduction, Wounds 1

2. Wounds 2

3. Post Mortem Changes and Time of Death

4. Gunshot Wounds

5. Alcohol and Drugs

6. Assignment 1 Discussion

7. Death and Related Matters: Certification, Disposal & Organ Transplantation

8. Death Investigation

9. Assignment 2 Discussion

10. Bodies recovered from Fire and Water

11. Asphyxia

12. Personality Profiling of Assailants

13. Sexual Offences and Child Abuse

14. Assignment 3 Discussion

15. Assignment 4 Discussion

APPENDIX 2: FORENSIC SCIENCE MODULE

Intended learning outcomes

Knowledge and Understanding:

 $\cdot\,$ Have an understanding of the principles and practice of physical evidence collection and

preservation

 \cdot Have a critical understanding of the principles underpinning the various class and individualising tests performed by the laboratory, for each type of physical evidence **Skills**:

 $\cdot \,$ The ability to retrieve, critically review published literature and produce an accurate and

balanced synthesis

- The ability to communicate with peers and more senior specialists orally and in writing
- The ability to use a wide range of software to support and enhance the above
- $\cdot \,$ The ability to take responsibility for own work and to exercise substantial autonomy and

initiative in a learning environment

Seminar topics:

- 1. Laboratory Instruments and Techniques in Forensic Science
- 2. Physical Match and Fingerprints
- 3. Fingerprints
- 4. Fibres & Hairs
- 5. Blood spatter, Serology & DNA
- 6. Drugs and Document Examination
- 7. Firearms
- 8. Paint and Road Traffic Accidents
- 9. Statistical Analysis

APPENDIX 3: LITERATURE REVIEW DISSERTATION OR RESEARCH

DISSERTATION

(a) Literature review dissertation

Intended learning outcomes

Knowledge and Understanding:

• critical awareness of current issues in forensic medicine

Skills:

 $\cdot \,$ The ability to retrieve, critically review published literature and produce an accurate and

balanced synthesis

- The ability to communicate with peers and more senior specialists orally and in writing
- The ability to use a wide range of software to support and enhance the above

 $\cdot \;$ The ability to take responsibility for own work and to exercise substantial autonomy and

initiative in a learning environment

(b) Research dissertation

Intended learning outcomes

By the end of the module, students should have:

- · Knowledge of safety procedures as they apply within a scientific laboratory
- · An attitude which values honesty, frankness, and integrity in scientific research.
- The ability to plan and execute a significant project of research or investigation
- $\cdot \,$ The ability to retrieve, critically review published literature and produce an accurate and

balanced synthesis

 $\cdot \,$ The ability to take responsibility for own work and to exercise substantial autonomy and

initiative in a project

APPENDIX 4: UNIVERSITY OF DUNDEE SENATUS ACADEMICUS REGULATIONS GOVERNING PLAGIARISM AND ACADEMIC DISHONESTY

{Note: these Regulations apply to all undergraduate and postgraduate degrees, diplomas and

certificates}

 \cdot 1. The University's degrees and other academic awards are granted in recognition of a candidate's personal achievement.

 \cdot 2. Any action on the part of a candidate which involves plagiarism (defined as the unacknowledged use of another's work as if it were one's own exemplified by copying from a source without acknowledgement of its origin) or other form of academic dishonesty, in work which may be assessed as part of the requirements for an academic award, will be regarded as a serious offence.

 \cdot 3. Where a substantive case of academic dishonesty or plagiarism is detected by an examiner, a written or oral report shall be made to the Board of Examiners(1) concerned, along with one of the following recommendations:

1. that the examiner is satisfied that the matter should be noted but requires no

further action by the Board(1) because it involves no more than a single lapse or a very few minor lapses which have been taken into account in the examiner's assessment of the work; or

2. that the nature of the academic dishonesty is such that in the examiner's opinion it is appropriate to reduce the candidate's mark by a specified amount to reflect the examiner's assessment of the extent of the cheating; or

3. that the nature of the academic dishonesty, and/or its extent, is so significant that the examiner is unable to penalise the work adequately by a reduction in marks and that the Board of Examiners(1) should consider it as a serious case of cheating.

• 4(1) In the case of a recommendation from an examiner in terms of Regulation 3(2) the Board of Examiners(1) has the discretion to adjust the marks and results up to the point where the academic rating for the piece of work in question is reduced to zero with whatever consequences would normally follow from such performance, including loss of class in the case of honours examinations, or failure in the case of other examinations.

 \cdot 4(2) A Board of Examiners(1) has no power to make a greater adjustment to marks by way of penalty for what it regards as a more serious and substantial case of academic dishonesty. Where a Board of Examiners(1) believes the extent of the dishonesty in terms of Regulation 3(3) to be such that sanction over and above the disallowance of work is appropriate, as detailed a report as possible of the circumstances of the offence should be sent to the Academic Secretary who will arrange for it to be considered along with his recommendation concerning the subsequent action which might be taken by the University Committee on Academic Dishonesty. In such a case, any decision by the Board of Examiners(1) concerning that particular student shall be suspended pending the decision of the Committee.

 \cdot 4(3) The decision of the Committee on Academic Dishonesty shall be final except in those cases where the Committee believes refusal to award a degree or other qualification or exclusion from the University is appropriate. In such cases the Committee shall make a recommendation to the Senate.

November 2000

Footnotes

(1) or the Director of the Centre in cases where academic dishonesty or plagiarism is detected in

coursework undertaken during the academic year. This is to ensure that matters may be dealt

with expeditiously in the interests of the students concerned rather than having to wait for the

annual meeting of the Board of Examiners in June.

(2) Any such decision of the Senatus is subject to the provision of Statute 9(5)(b).



Monash University Handbook 2011 Postgraduate Forensic medicine

Managing faculty Faculty of Medicine, Nursing and Health Sciences **Description**

Forensic medicine aims to develop academic standards in clinical forensic medical practice and

to produce graduates who have a sound knowledge of medico-legal principles. Students have the

opportunity to develop practical skills in research as well as in providing clinical forensic services to the community.

Units

For the schedule of units required to complete a given course in this area of study, refer to the

Handbook entry for the relevant course.

Relevant Courses

3884 Graduate Certificate of Nursing (Forensic)3412 Master of Forensic Medicine

3884 - Graduate Certificate of Nursing (Forensic)

This course entry should be read in conjunction with information provided in the 'Faculty information' section of this Handbook by the Faculty of Medicine, Nursing and Health Sciences

Managing faculty Medicine, Nursing and Health Sciences Abbreviated title GradCertNurs(Forens) Total credit points required 24 Standard duration of study (years) 1 year PT Study mode and location Off-campus (Clayton) Admission, fee and application details http://www.monash.edu/study/coursefinder/course/3884 Contact details Ms Debbie Hellings, course administrator: telephone +61 3 9684 4115; email debbie.hellings@monash.edu or debbieh@vifm.org Visit website http://www.vifm.org Course

coordinator Dr Angela Williams Notes

• This course is not available to international student visa holders.

• Part-time study only.

Description

This course, offered by the Department of Forensic Medicine, aims to assist those with an interest in pursuing professional development in the area of forensic nursing. Areas covered are:

- · forensic knowledge and nursing responsibilities in forensic cases
- · clinical consultations with victims of crime and offenders
- medico-legal report writing and provision of evidence in court
- · theoretical and cultural aspects of interpersonal violence.

Objectives

On completion of the course, graduates will have gained the knowledge, skills and attributes

(theoretical and practical) necessary to:

- · provide a comprehensive nursing service for victims of interpersonal violence
- demonstrate a thorough working knowledge of the forensic and nursing

responsibilities in

forensic cases

- $\cdot\,$ obtain highly developed communication skills in clinical consultations with victims of crime and offenders
- $\cdot\,$ write medico-legal reports and provide evidence in courts on a range of clinical situations

and consultations

 $\cdot\,$ liaise effectively with associated agencies, law enforcement, criminal justice system and

counselling services on issues surrounding individual cases

· comprehend theoretical and cultural aspects of interpersonal violence.

Assessment

Assessment includes case study reports, presentations, online discussion, clinical placement/attachment.

Structure

This course comprises four core units.

Requirements

Semester 1

- FOR5001 Sexual assault nursing I
- FOR5003 Understanding injuries

Semester 2

- FOR5002 Sexual assault nursing II
- FOR5004 Nursing and the criminal justice system

Award(s)

Graduate Certificate of Nursing (Forensic)

FOR5001 - Sexual assault nursing I

6 points, SCA Band 0 (NATIONAL PRIORITY), 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate

Faculty Faculty of Medicine, Nursing and Health Sciences Offered Clayton First semester 2011 (Off-campus) Coordinator(s) Dr Angela Williams

Synopsis

Divided into key themes surrounding the theory and historical perspective of rape and sexual

assault, the incidence and prevalence of sexual offences, history taking, examination findings,

and understanding the complexities of victims of sexual assault, this unit provides the foundations to understanding adult sexual assault nursing and forms the basis for FOR5002. Both

units give the sexual assault nurse a broad understanding of managing adult sexual assault in

their community. Exploring best practice models from national and international resources the

student learns to critically evaluate these and other journal articles provided.

Objectives

Upon completion of this unit the student will be able to:

a. Describe the incidence and prevalence of violence against women and sexual assault as it

relates to the community;

b. Define the elements of sexual assault and the law surrounding sexual offences;

c. Describe both female and male genital anatomy;

d. Develop a clear understanding of genital physiology; e) Evaluate sexual assault services,

existing models and journal reviews;

e. Develop skills in communicating with victims of sexual assault whilst understanding the

complexities of history taking in these circumstances;

f. Define the process used to perform a high quality sexual assault examination;

g. Understand the importance of clear and precise record keeping, documentation and the advantages and disadvantages photography as an adjunct to written records and

i. Identify and understand the needs of vulnerable subgroups or of victims from diverse and/or ethnic communities.

Assessment

Workbook Activities (20%) Online Discussion (10%) Case Presentation (20%) Residential Participation (10%) Case Study (40%)

Chief examiner(s) Dr Jo Ann Parkin

Off-campus attendance requirements

Compulsory 3 day workshop each semeste

FOR5003 - Understanding injuries

6 points, SCA Band 0 (NATIONAL PRIORITY), 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate

Faculty Faculty of Medicine, Nursing and Health Sciences Offered Clayton First semester 2011 (Off-campus)

Coordinator(s) Dr Angela Williams

Synopsis

The unit is divided into key themes surrounding pathophysiology, causation, classification, and

documentation of injuries. Designed to give participants advanced skills in assessing injuries

with specific regard to these themes and common injury patterns enabling them to interpret

injuries and provide opinions as to their likely cause to the criminal justice system. The unit

explores best practice models from national and international resources and requires the student

to critically evaluate these and other journal articles provided. A national and international focus

is maintained throughout as the student gains skills adaptable to professional opportunities

interstate and overseas.

Objectives

Upon completion of this unit the student will be able to:

- a. Demonstrate an understanding of the pathophysiology of injuries;
- b. Describe the limitations of accurate interpretation of injuries or the absence of injuries;
- c. Use forensic photography as an adjunctive method of documentation;
- d. Detail the classification of injuries;
- e. Critically examine the current literature surrounding injuries and injury patterns;

f. Analyse and interpret mechanism and circumstances by which the injuries were sustained;

Assessment

Workbook Activities (30%) Case Studies (30%) Case Presentation and Residential Participation (10%) Assignment (30%)

Chief examiner(s)

Dr Angela Williams

Off-campus attendance requirements

Compulsory 3 day workshop each semester.

FOR5002 - Sexual assault nursing II

6 points, SCA Band 0 (NATIONAL PRIORITY), 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate

Faculty Faculty of Medicine, Nursing and Health Sciences Offered Clayton Second semester 2011 (Off-campus) Coordinator(s) Dr Angela Williams

Synopsis

It is intended that this unit will provide the foundations to understanding adult sexual assault

nursing alongside the unit FOR5001. Together these units will give the sexual assault nurse a

broad understanding of managing adult sexual assault in their community. The unit is divided

into key themes surrounding examination findings, specimen collection, therapeutics medico

legal issues, interagency liaison and developing a sexual assault service. Group and studentstudent

facilitated learning is encouraged as students engage each other, exchange opinions and offer/receive peer review. The unit explores best practice models from national and international

resources and requires the student to critically evaluate these and other journal articles provided.

A national and international focus is maintained throughout as the student gains skills adaptable

to professional opportunities interstate and overseas.

Objectives

Upon completion of this unit the student will be able to:

a. Identify, classify and interpret both body and genital injuries sustained by a sexual assault

victim;

b. Understand the incidence and prevalence of injury patterns;

c. Develop a sound knowledge basis of the science and philosophy behind collecting forensic specimens as well as being able to practise competent and proficient collection techniques;

d. Apply best practice evidence based medicine when evaluating for, preventing and treating injuries, sexually transmitted diseases and pregnancy alongside other issues in therapeutically managing a sexual assault victim;

e. Communicate effectively with other agencies involved in the management of a sexual assault case including the handling of sensitive information;

f. Identify special circumstances in which sexual assault occurs and be able to teach and responding to community attitudes surrounding these issues;

g. Critically analyse the role of the health professional in a sexual assault case and the complexities associated with this role; and

h. Apply the knowledge and skills gained from the combination of this and the prerequisite

unit to aid in the establishment of a high quality 24 hour service to deal with sexual assault cases.

Assessment

Workbook Activities (20%), Online Discussion (10%), Case Presentations (20%), Residential

Participation (10%), Case Study (40%)

Chief examiner(s)

Dr Jo Ann Parkin

Contact hours

Compulsory 3 day workshop each semester

Prerequisites

FOR5001

FOR5004 - Nursing and the criminal justice system 6 points, SCA Band 0 (NATIONAL PRIORITY), 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate Faculty Faculty of Medicine, Nursing and Health Sciences Offered Clayton Second semester 2011 (Off-campus) Coordinator(s) Dr Angela Williams

Synopsis

The unit covers four themes: Introduction to the Criminal Justice System and Sexual Offences:

Medico legal Documentation; Rules of Evidence; Giving Evidence and Advocacy Techniques.

Designed to give nursing students knowledge of the legal system (in particular the criminal

justice system), the unit examines the hierarchy of the legal system and the courts. The importance of providing objective and informative opinion evidence to the court and an understanding of the boundaries of being an expert witness is also covered. The moot court

allows students to practice skills and gain confidence in the plan of the courtroom and a site visit

demonstrates and the process and procedures of a trial.

Objectives

Upon completion of this unit the student will be able to:

a. Understand the basics of the legal system and be able to locate appropriate law in relation

to their professional duties;

b. Demonstrate knowledge of the general principles of the laws of evidence, in particular the rules around opinion evidence;

c. Understand the role of the expert witness;

d. Prepare a medico legal report; and

e. Utilize techniques necessary for managing evidence in chief, cross examination and re examination.

Assessment

Workbook Activities (30%) Case Studies (30%) Presentation and Residential participation (10%) Assignment (10%)

Chief examiner(s)

Dr Angela Williams

Off-campus attendance requirements

Compulsory 3 day workshop each semester.

Master of Forensic Medicine

This course entry should be read in conjunction with information provided in the 'Faculty information' section of this Handbook by the Faculty of Medicine, Nursing and Health Sciences

Managing faculty Medicine, Nursing and Health Sciences

Abbreviated title MForensMed Total credit points required 72 Standard duration of study (years) 3 years PT Study mode and location Off-campus (Clayton) Contact details Ms Debbie Hellings, course administrator: telephone +61 3 9684 4115;

email debbie.hellings@monash.edu or debbieh@vifm.org

Visit website http://www.vifm.org

Course coordinator Associate Professor David Wells **Notes**

• This course is not available to international student visa holders.

• Part-time study only.

Description

This course is designed to further develop medical practitioners knowledge and skills so that they

are able to provide a high quality clinical forensic medical service. This will include ethical and

legal issues arising in forensic medical practice, the skills required to interpret injury patterns and

communication with the justice system.

Objectives

This course is designed to:

- · establish academic standards in clinical forensic medical practice
- \cdot produce graduates who have a sound knowledge of medico-legal principles

- · develop practitioners skills in providing clinical forensic services in the community
- strengthen the teaching- research nexus in forensic medical education
- foster the development of career pathways in forensic medicine.

Assessment

Assessment activities, including the thesis option, are designed to further develop the participants' understanding of the theoretical principles underpinning forensic practice. Assessment methods will vary but may include coursework and workshop participation, formal

assignments, casebooks and minor thesis.

Structure

This course is offered via coursework and minor thesis, or by coursework only. The coursework

component comprises core and elective units.

Requirements

Core units

- FOR4001 Medical evidence
- FOR4002 Injury interpretation
- FOR4003 Ethics, medicine and the law

Coursework and minor thesis option

Students complete:

- 48 points of electives
- \cdot a minor thesis

Students undertaking the minor thesis are required to prepare a research proposal at an early

stage of their minor thesis enrolment and have this approved by their thesis supervisor. The area

of research must cover a topic directly related to forensic medicine, and should include at least

one elective unit of instruction on research methodologies and basic statistics.

Coursework only option

Students complete:

• 54 points of electives

Elective units

Students select units from the list below or may also (with departmental approval) choose other

graduate units offered by the Faculty of Medicine, Nursing and Health Sciences, other faculties

at Monash University or other tertiary institutions.

- FOR4004 Elements of the forensic sciences
- FOR4005 Child and adolescent sexual abuse
- FOR4006 Non accidental injury in childhood

- FOR5005 Adult sexual assault
- FOR5006 Traffic medicine
- FOR5007 Elements of forensic toxicology
- FOR5008 Custodial medicine
- FOR5010 Project in forensic medicine

Minimum grade for course completion

Students must achieve a minimum distinction grade average in all three core units to qualify for

this award. Students who do not achieve this average will exit with a Graduate Certificate of

Forensic Medicine or Graduate Diploma of Forensic Medicine, depending on the units completed, providing all requirements for the award has been met.

Alternative exit(s)

Students may exit this course with a Graduate Certificate of Forensic Medicine or Graduate

Diploma of Forensic Medicine providing all requirements of that award have been met.

Award(s)

Master of Forensic Medicine

FOR4001 - Medical evidence

print version

6 points, SCA Band 3, 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate

Faculty Faculty of Medicine, Nursing and Health Sciences

Offered Clayton First semester 2012 (Off-campus)

Clayton Second semester 2012 (Off-campus)

Coordinator(s) Associate Professor David Ranson

Synopsis

The law of evidence is a branch of adjectival law. It consists of legal rules, procedural rules and

administrative arrangements whereby courts and tribunals within the justice system receive and

evaluate evidence.

To perform satisfactorily in this field a forensic medical practitioner's communication skills must

be of a high order and they need to understand the legal principles that govern the admissibility

of their evidence.

This unit will enable students to gain practical skills in the delivery of medical evidence in courts

and tribunals, in the preparation of medico legal reports to be used as items of evidence and in the techniques of advocacy that can modify the way in which a medical practitioner's evidence is

received by courts.

Tutorials and presentations will be used to lay the foundations for some of the basic academic

objectives of the course. Workshops will be used to establish witness skills and oral communication techniques and a moot court will be used to develop practical skills in presenting

evidence and developing strategies to deal with the medico legal and advocacy issues that arise

during the examination and cross-examination of witnesses including expert witnesses.

Outcomes

On completion of this unit the student is expected to:

- 1. display an understanding of decision making processes in legal practice;
- 2. demonstrate knowledge of the general principles of the laws of evidence;
- 3. comprehend the special rules regarding opinion evidence;
- 4. understand the role of the expert witness;
- 5. be conversant with the rules governing the reception of evidence to the courts;
- 6. demonstrate competency in preparing medico-legal reports;
- 7. have developed the skills required to present evidence in court;

8. have acquired the techniques necessary for managing examination-in-chief, cross examination and re-examination.

Assessment

Assignments/Essays (50%) Casebook Workbook (25%) Skills Evaluation (25%)

Chief examiner(s)

Associate Professor David Ranson

Off-campus attendance requirements

Compulsory 2 day workshop

FOR4002 - Injury interpretation

print version

6 points, SCA Band 3, 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate Faculty Faculty of Medicine, Nursing and Health Sciences Offered Clayton First semester 2012 (Off-campus) Clayton Second semester 2012 (Off-campus) Coordinator(s) Associate Professor D Wells

Synopsis

The unit focuses on the issues surrounding the interpretation of injuries. Areas include the pathophysiology of injuries with particular reference to the anatomical, physiological and pathological principles; injury classification; documentation including forensic photography;

injury patterns and circumstances of causation. Students will be expected to participate with

clinical and post mortem cases.

Outcomes

On completion of this unit the student will be expected to:

- 1. display an understanding of the pathophysiology of injuries;
- 2. show familiarity with the factors limiting accurate injury interpretation;
- 3. interpret the forces producing injuries;
- 4. apply the principles of forensic photography;
- 5. demonstrate a detailed understanding of the classification of injuries;
- 6. be able to accurately document injuries;

7. analyse and interpret mechanisms and circumstances by which the injuries were sustained.

Assessment

Assignments / Essays (20%) Case Studies (30%) Casebook workbook (30%) Skills Evaluation (20%)

Chief examiner(s)

Associate Professor David Wells

Off-campus attendance requirements

Compulsory 2 day workshop

FOR4003 - Ethics, medicine and the law 6 points, SCA Band 3, 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate

Faculty Faculty of Medicine, Nursing and Health Sciences

Offered Clayton First semester 2012 (Off-campus)

Clayton Second semester 2012 (Off-campus)

Coordinator(s) Emeritus Professor L Waller

Synopsis

The unit aims to help students become familiar with the tools and vocabulary of ethical discourse

in medicine. A framework for this discourse is built, based on the four basic principles of autonomy, beneficence, non-maleficence and justice. The elements which go to make up the

Australian Legal System are covered as well as those particular areas of law relating to forensic

medical practice, i.e. consent, confidentiality and disclosure, issues at both the beginning and end

of life.

Outcomes

The aims of this unit are:

1. to develop the student's awareness and understanding of the ideas and issues in medical

ethics so that in practice, the interests of their patients/clients are safeguarded;

2. to develop the student's knowledge and understanding of relevant areas of the law so that

in practice their contribution to the justice system is optimal.

Assessment

Assignments / Essays (50%) Presentations (25%) Casebook Workbook (25%)

Chief examiner(s)

Emeritus Professor Louis Waller

Off-campus attendance requirements

Compulsory 2 day workshop

FOR4004 - Elements of the forensic sciences 6 points, SCA Band 0 (NATIONAL PRIORITY), 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate Faculty Faculty of Medicine, Nursing and Health Sciences Offered Clayton First semester 2012 (Off-campus) Clayton Second semester 2012 (Off-campus) Coordinator(s) Mrs Anna Davey

Synopsis

Practitioners need to be familiar with the scope and limitations of the various branches of forensic science to know when and how they may assist in particular cases. Topics to be covered

include the principles of forensic science, forensic biology, forensic botany, crime scene examination, specimen collections, forensic anthropology, forensic odontology and forensic

entomology.

Outcomes

On completion of this unit the student is expected to:

1. show familiarity with the principles of forensic science generally and its scope;

2. comprehend the scope and limitations of forensic science generally and its subsections in

particular;

3. understand the tests and analyses used in braches of forensic science to assist in the proper application of their results in particular cases;

4. know what specimens would be applicable for forensic science analysis in particular cases;

5. demonstrate competence in the collection storage and security of forensic specimens;6. evaluate results of forensic scientific analysis meaningfully.

Assessment

Assignments / Essays (25%)

Case Studies (15%) Presentations (10%) Casebook Workbook (50%)

Chief examiner(s)

Mrs Anna Davey

Off-campus attendance requirements Compulsory 2 day workshop

FOR4005 - Child and adolescent sexual abuse 6 points, SCA Band 0 (NATIONAL PRIORITY), 0.125 EFTSL

Refer to the specific census and withdrawal dates for the semester(s) in which this unit is offered.

Level Postgraduate

Faculty Faculty of Medicine, Nursing and Health Sciences Offered Clayton First semester 2012 (Off-campus)

Clayton Second semester 2012 (Off-campus)

Coordinator(s) Associate Professor David Wells

Synopsis

Paediatric forensic medicine encompasses the medico-legal issues arising from the provision of a

medical service to children. The unit will largely focus on the medical assessment of cases of

suspected child sexual abuse.

The aim of this unit is to develop student's skills in the evaluation and management of children

and adolescents suspected of being sexually abused. Integral to both evaluation and management

will be a knowledge of the relevant legislation, policing and protective agencies, injury patterns,

specialised investigative techniques and treatment.

Outcomes

On completion of this unit the student will be expected to:

1. Display a detailed understanding of the roles of health practitioners in assessing cases of

suspected child sexual abuse.

2. Demonstrate an understanding of sexual development and behaviour in children.

3. Demonstrate an awareness of the ethical and legal issues relevant to cases of suspected child sexual abuse.

4. Describe normal genital anatomy and physiology, and be able to interpret pathological conditions.

5. Apply medical and forensic principles to the evaluation of cases of suspected child sexual

abuse.

6. Display a broad comprehension of the consequences, treatment and prevention of child sexual abuse.

7. Recognise the role of the other disciplines involved in investigations; protective workers,

police, lawyers.

8. Recognise the medical and legal implications of a sexually transmitted infection in a child.

9. Display a detailed understanding of the roles of health practitioners in assessing cases of

suspected child sexual abuse.

10. Demonstrate an understanding of sexual development and behaviour in children.

11. Demonstrate an awareness of the ethical and legal issues relevant to cases of suspected

child sexual abuse.

12. Describe normal genital anatomy and physiology, and be able to interpret pathological conditions.

13. Apply medical and forensic principles to the evaluation of cases of suspected child sexual abuse.

14. Display a broad comprehension of the consequences, treatment and prevention of child sexual abuse.

15. Recognise the role of the other disciplines involved in investigations; protective workers, police, lawyers.

16. Recognise the medical and legal implications of a sexually transmitted infection in a child.

Assessment

Assignment 1 - Workbook questions 2,3,4, and 9: 15%

Assignment 2 - Case critique: 20%

Assignment 3 - Workbook questions 12, 13, 14, 15: 20%

Face to face teaching & case presentation: 15%

Essay: 30%

Chief examiner(s)

Dr Anne Smith

Contact hours

12 hours of study per week over the semester. This will include contact time (25 hours), private study (text and readings), assessment tasks (case studies, assignments), and involvement in case work, plus a compulsory 2 day workshop

Off-campus attendance requirements

Off-campus (distance education) with a two-three day attendance block during the semester.

Additional information on this unit is available from the faculty at: http://www.med.monash.edu.au/vifm/

Additional information on this unit is available from the faculty at: http://www.med.monash.edu.au/vifm/

ملحق 4: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية العامة

- مواصفات الخريج:

مواصفات الخريج بالمعايير الأكاديمية للبرنامج	مواصفات الخريج بالمعايير القياسية العامة لبرامج الدراسات العليا (درجة الدكتوراة)
1.1.Demonstrate competency and mastery of	۱.۱. انقان اساسیات و منهجیات ۱۱. میلا
basics, methods and tools of scientific research and	البحث العلمى
clinical audit in forensic medicine and clinical	
toxicology.	
1.2. Have continuous ability to add knowledge new	 ١. [العمل المستمر على الاضافة للمعارف
developments to forensic medicine and clinical	في مجال التخصص
toxicology through research and publication	
1.3. Appraise and utilize scientific knowledge to	 ١.٣ تطبيق المنهج التحليلي والناقد للمعارف
continuously update and improve forensic medicine	في مجال التخصص والمجالات دات العلاقة
& clinical toxicology practice and relevant basic	
sciences.	
1.4. Acquire excellent level of medical knowledge	 دمج المعارف المتخصصة مع المعارف
in the basic biomedical, clinical, behavioral and	ذات العلاقة مستنبطا ومطورا للعلاقات البينية يبنيما
clinical sciences, medical ethics and apply such	S
knowledge in patient care in forensic medicine and	
clinical toxicology.	
1.5. Demonstrate in depth awareness of public health	 ١.٥ اظهار وعيا عميقا بالمساكل الحاربة والنظريات الحدية في محال
and health policy issues and share in system-based	التخصص
improvement of health care.	
1.6. Identify and create solutions for health problems	 ١.٦ تحديد المشكلات المهنية وايجاد
in forensic medicine and clinical toxicology.	حلولا مبتكره لحلها
1.7. Acquire an in depth understanding of common	.1.7 اتقان نطاقا واسعا من المهارات المهنية في محال التخصص
areas of forensic medicine and clinical toxicology	
from basic clinical care to evidence based clinical	

antication and possession of skills to manage	
application, and possession of skins to manage	
independently all problems in these areas.	
	ĺ
1.8. Function effectively to provide patient care that	1.8. التوجة نحو تطوير طرق وادوات
is appropriate compassionate for dealing with	واساليب جديدة للمزاولة المهنية
is appropriate, compassionate for dealing man	
health problems and health promotion.	
1.9. Use recent technologies to improve his practice	۱٫۹. استخدام الو سائل التکنولو حدة
· · · · · · · · · · · · · · · · · · ·	المناسبة بما يخدم ممارستة المهنية
in forensic medicine and clinical toxicology.	
1.10. Demonstrate leadership competencies	١٠ ١٠ النواصل بفاعليه وقيادة فريق عمل في سراقات بنية مناذة
including interpersonal and communication skills	سیایات مهنیه محللفه
that ensure effective information exchange with	
in dividual nations and their families and teamwork	
individual patients and their rannines and teamwork	ĺ
with other health professions, the scientific	
community and the public.	
1.11.Master decision making capabilities in	.1.11ااتخاذ القرار في ضل المعلومات المتاحة
different situation related to forensis medicine and	, <u> </u>
different situation related to forensic medicine and	
clinical toxicology.	
1.12. Employee the available medical data	.1.12توظيف الموارد المتاحة بكفاءة وتتميتها
effectively obtained during diagnosis of different	والعمل على ايجاد موارد جديدة
formation and toxicological conditions develop them	
Iorensic and toxicological conditions, develop them	
and find new medical resources.	
1.13.Demonstrate awareness of his role in	.1.13 الوعي بدوره في تنمية المجتمع والحفاظ
community development and environmental	على البيئة
preservation.	
1.14. Show model attitudes and professionalism.	.14.التصرف بما يعكس الالتزام بالنزاهة
-	والمصداقية وقواعد المهنة

1.15. Function as teacher in relation to colleagues,	.1.15 الالتزام بالتنمية الذاتية المستمرة ونقل علمه وخير اته للاخرين
medical students and other health professions with	0.0 0.0
concomitant lifelong learning and maintenance of	
competence and ability for continuous medical	
toxicology.	

أ - المعرفة والفهم:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الدكتوراة)
2.1.1.Recent advances, areas under research as well as the basic principles and theories in the field of forensic science, clinical toxicology and analytical toxicology.	بانتهاء دراسة برنامج الدكتوراة يجب ان يكون الخريج قادرا على الفهم والدراية بكل من: المارف في مجال التخصص والمجالات ذات العلاقة
2.1.2.Scientific research ethics, research methodology & research design; basic including principles of research, how research is conducted, evaluated, explained to patients, and applied to patient care.	٢-١-٢ اساسيات ومنهجيات واخلاقيات البحث العلمى واداواته المختلفة.
2.1.3.Legal and medicolegal aspects in practice of clinical toxicology and forensic medicine as well as the medical ethics and responsibility.	2-1-1 المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص
2.1.4.Principles and basic concepts of quality in	

professional practice including p	planning, الجودة في planning,
improvement of performance and co	الممارسة في مجال التخصص
practicing outcomes.	
2.1.5.Knowledge related to enviro	onmental
development, patient safety, safe occu	upational المعارف المتعلقة باثار ممارسته المعارف المتعلقة باثار ممارسته السنة
practice, serving communities and researc	ch results وصيانتها
in improving public health outcomes.	

ب - القدرات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الدكتوراة)
2.2.1. Medical data analysis, interpretation, evaluation and proper therapy choice.	بانتهاء دراسة برنامج الدكتوراه يجب ان يكون الخريج قادرا على: ٢-٢-١ تحليل وتقييم المعلومات فى مجال التخصص والقياس عليها والاستنباط منها
2.2.2. Medical problem solving and Evidence-based medicine according to the available medical data.2.2.9	۲-۲-۲ حل المشاكل المتخصصة استنادا على المعطيات المتاحة
2.2.3. Participation in research development and innovation.	۲-۲-۳ اجراء دراسات بحثية تضيف الى المعارف
2.2.4. Scientific paper reviewing and editing.	٢-٢-٤ صياغة أوراق علمية
2.2.5. Risk assessment in medical practice.	٢-٢-٥ تقييم المخاطر في الممارسات المهنية

2.2.6. Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology.	٢-٢-٢ التخطيط لتطوير الإداء في مجال التخصص
2.2.7. Decision making skills in different professional situations.	٢-٢-٧ اتخاذ القرارات المهنية في سياقات مهنية مختلفة
2.2.8. Development, innovation and medical breakthrough.	۲_۲_۸ الابتکار/الابداع
2.2.9. Evidence based discussion.	۲-۲-۹ الحوار والنقاش المبنى على البراهين والادلة

ج. مهارات مهنية وعملية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الدكتوراة)
2.3.1. Professionalism and up to date medical practice in the field of forensic medicine and clinical toxicology.	بانتهاء دراسة برنامج الدكتوراة يجب ان يكون الخريج قادرا على: ٢-٣-١ اتقان المهارات المهنية الإساسية والحديثة فى مجال التخصص
2.3.2. Medical and medicolegal reports writing and evaluation.	٢ ـ ٣ ـ ٢ كتابة وتقييم التقارير المهنية
2.3.3. Ability to investigate and evaluate their diagnostic and investigational tools, to continuously improve patient care based.	٢ ـ ٣ ـ ٣ ـ تقييم و تطوير الطرق والادوات القائمة في مجال التخصص
2.3.4. Effective use of Internet Technology and healthcare information system in medical practice and patient medical records to optimize learning;	٢ ـ ٣ ـ ٢ استخدام الوسائل التكنولوجية بما يخدم الممارسة المهنية

and participate in the education of patients,	
families, students, residents and other health	
professionals.	
2.3.5. Planning for improvement of professional	·····
performance in the field of forensic medicine and	۲ ـ ۳ ـ ٥ التخطيط لتطوير الممارسة المهنية و تنمية اداء الاخرين
clinical toxicology practice.	

د . مهارات عامة :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الدكتوراة)
2.4.1.Effective Interpersonal and communication skills that result in the exchange of information and collaboration with patients their families and	بانتهاء دراسة برنامج الدكتوراه يجب أن يكون الخريج قادرا على:
health professionals.	١-٤-١ التواصل الفعال بالواعة المختلفة
2.4.2.Use of Internet Technology and healthcare information system in medical practice.	٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم تطوير الممارسة المهنية
2.4.3.Teaching and evaluation skills of the others as senior staff.	٢-٤-٢ تعليم الاخرين وتقييم ادائهم
2.4.4.Self-appraisal and needs evaluation.	٢-٤-٤ التقييم الذاتي والتعليم المستمر
2.4.5.Accessibility to specialty-specific and other appropriate reference materials in print or in electronic format.	٢-٤-٥ استخدام المصادر المختلفة للحصول على المعلومات والمعارف
2.4.6.Teamwork/leadership.	٢-٤-٢ العمل في فريق وقيادة فرق العمل

2.4.7.Time	management	and	meeting	
organization.				٢-٤-٢ ادارة اللقاءات العلمية والقدرة على ادارة الوقت

أهداف البرنامج المعايير الأكاديمية للبرنامج (مواصفات الخريج) 1.1.Acquire Detailed and advanced knowledge and skills 1.2. 1.5. necessary for practicing and adding new concepts in forensic medicine, and clinical toxicology. 1.3., 1.6., 1.8. 1.2. Integrate the medical data of forensic medicine and toxicology properly in the service of justice. 1.3.Accept decision making capabilities in different situation 1.11. related to forensic medicine and clinical toxicology. **1.4.Percept** lifelong learning competencies necessary for 1.1., 1.15. continuous professional development; self-learning and basis of medical research in field of forensic medicine & clinical toxicology. **1.5.***Function* as leader of a team to provide patient care that 1.10 is appropriate for dealing with health problems and health promotion. 1.6. Create solutions for health problems facing him/her 1.5., 1.6., 1.8., 1.12, during practicing forensic medicine & clinical toxicology. 1.13

ملحق ٥: مصفو فة مضاهاة المعايير الأكاديمية للبرنامج و أهداف و نواتج تعلم البرنامج

1.7. Acceptcommunicationandinterpersonalskills1.10.

	
necessary for effective information exchange with patients	
and their families and with other health professions.	
1.8. Acquire professionalism and attitudes in relation to	1.14
colleagues, medical students and other health professions.	
1.9. Show awareness of decision making capabilities in	1.11.
different situation related to forensic medicine and	
clinical toxicology.	
1.10. Use recent technologies to improve his practice in	1.9.
forensic medicine and clinical toxicology.	

			لچ	البرناه	ج تعلم	نوات					
			ł	و الفهم	عرفه و						
2.a.1. 2.a.2. 2.a.3 2.a.3 2.a.4 2.a.5 2.a.5 2.a.5 2.a.7 2.a.7 2.a.9 2.a.10							المعايير الأكاديمية للبرنامج				
						\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	المعرفة و الفهم: By the end of MD program, candidate should be able to understand the followings: 2.1.1. Recent advances, areas under research as well as the basic principles and theories in the field of forensic science, clinical toxicology and analytical toxicology.
					\checkmark						2.1.2. Scientific research ethics, research methodology & research design; basic including principles of research, how research is conducted, evaluated, explained

 -		-	-	 •			
							to patients, and applied to patient care.
				\checkmark			2.1.3. Legal and medicolegal aspects in practice of clinical toxicology and forensic medicine as well as the medical ethics and responsibility.
	\checkmark						2.1.4. Principles and basic concepts of quality in professional practice including planning, improvement of performance and control of practicing outcomes.
		\checkmark					2.1.5.Knowledge related to environmental development, patient safety, safe occupational practice, serving communities and research results in improving public health outcomes.

			مج :	البرناء Intel	ج تعلم lectu	نوات aal sl	المعايير الأكاديمية للبرنامج			
2.b.1	2.b.1. 2.b.2. 2.b.3 2.b.3 2.b.4 2.b.4 2.b.5 2.b.5 2.b.7 2.b.7 2.b.7 2.b.9 2.b.10							المهارات الذهنية		
				\checkmark				\checkmark	\checkmark	By the end of MD program, candidate should be able to recognize and mastering the following skills: 2.2.1. Medical data analysis, interpretation, evaluation and proper therapy choice.
					\checkmark					2.2.2 Medical problem solving and Evidence-based medicine according to

					the available medical data.
					2.2.3. Participation in research development and innovation.
					2.2.4. Scientific paper reviewing and editing.
					 2.2.5. Risk assessment in medical practice.
\checkmark					2.2.6. Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology.
					2.2.7. Decision making skills in different professional situations.
\checkmark					2.2.8. Development, innovation and medical breakthrough.
					2.2.9. Evidence based discussion.

Practical/Professional skills اليير الأكاديمية للبرنامج مهارات المهنية	نواتج تعلم البرنامج												
	Practic	al/Prof 2.c.7	2.c.5	al ski 2.c.4	lls 2.c.3	2.c.2.	2.c.1.						

		\checkmark	\checkmark	\checkmark	\checkmark		\checkmark	 Professionalism and up to date medical practice in the field of forensic medicine
								and clinical toxicology.
				\checkmark			\checkmark	 Medical and medicolegal reports writing and evaluation.
						\checkmark		 Ability to investigate and evaluate their diagnostic and investigational tools, to continuously improve patient care based.
						\checkmark		Effective use of Internet Technology and healthcare information system in medical practice and patient medical records to optimize learning; and participate in the education of patients, families, students, residents and other health professionals.
								Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology practice.

				ېچ	البرناه	ج تعلم	نوات					المعايير الأكاديمية للبرنامج
G	ene	ral a	nd t	ransf	erabl	e skil	1	المهارات العامة والمنتقلة				
				2.d.8	2.d.7	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2.	2.d.1.	
						\checkmark	\checkmark		\checkmark	\checkmark		EffectiveInterpersonalandcommunication skills that result in theexchangeofinformationand

								collaboration with patients, their families, and health professionals.
							\checkmark	Use of Internet Technology and healthcare information system in medical practice.
		\checkmark						Teaching and evaluation skills of the others as senior staff.
		\checkmark						Self-appraisal and needs evaluation.
							\checkmark	Accessibility to specialty-specific and other appropriate reference materials in print or in electronic format.
					\checkmark			Teamwork/leadership.
			\checkmark					Time management and meeting organization.

ملحق 6: Program-Courses ILOs Matrix

ف	لمعارأ	Kno	owled	lge &	z Und	lerst	andir	ng		ILOs	
a.10	a.9	2.a.8	2.a.7	2.a.6	2.a.5	2.a.4	2.a.3	2.a.2	2.a.1		Courses & codes
										FORE701	Anatomy •
										FORE702	Histology •
										FORE703	Physiology •
					FORE704	Pathology •					
--	--	--	--	--	---------	-----------------------					
					FORE705	Medical ethics •					
					FORE706	Medical statistics •					
					FORE707	General medicine •					
					FORE708	Forensic medicine •					
					FORE709	Clinical toxicology •					

			ن ذهنية	مهاران	Intel	lectu	al Sk	ILOs				
11	10	B9	B8	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1		Courses & codes
											FORE701	Anatomy •
											FORE702	Histology •
											FORE703	Physiology •
											FORE704	Pathology •
											FORE705	Medical ethics •
											FORE706	Medical statistics •
											FORE707	General medicine •
											FORE708	Forensic medicine •
											FORE709	Clinical toxicology •

	مهنية	، عملية و	P مهارات	racti	ical &	ILOs				
		2.c.7	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1		Courses & codes
									FORE701	Anatomy •
									FORE702	Histology •
-									FORE703	Physiology •
									FORE704	Pathology •
									FORE705	Medical ethics •

				FORE706	Medical statistics •
				FORE707	General medicine •
				FORE708	Forensic medicine •
				FORE709	Clinical toxicology •

	2	ارات عاماً	Gen مها	eral ar	ILOs				
2.d. 8	2.d.7	2.d.6	2.d.5	2.d.4	2.d.3	2.d.2	2.d.1		Courses & codes
								FORE701	Anatomy •
								FORE702	Histology •
								FORE703	Physiology •
								FORE704	Pathology •
								FORE705	Medical ethics •
								FORE706	Medical statistics •
								FORE707	General medicine •
								FORE708	Forensic medicine •
								FORE709	Clinical toxicology •

أستاذ المادة

التوقيع:

رئيس القسم

التوقيع:

11.