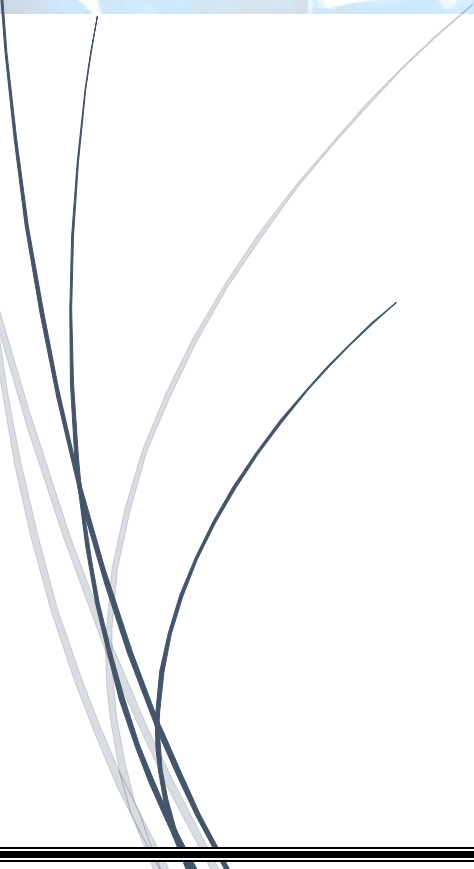


توصيف برنامج الماجستير

جامعة بنها

قسم الطب الشرعى و السموم الاكلينيكية





توصيف برنامج ماجستير الطب الشرعى و السموم الأكلينيكية

جامعة بنها
كلية الطب البشرى
قسم الطب الشرعى و السموم الأكلينيكية

توصيف برنامج ماجستير الطب الشرعى و السموم الأكلينيكية

2022-2023

Administrative information : * معلومات أساسية :

١ - اسم البرنامج : Master of Science in Forensic Medicine & Toxicology

٢ - طبيعة البرنامج : Single

٣- القسم المانح للدرجة: الطب الشرعى و السموم الأكلينيكية

• الأقسام المشتركة فى البرنامج: طب المجتمع والبيئة والصناعات، الباثولوجيا، الأمراض الباطنة.

٤- تاريخ إقرار البرنامج فى مجلس القسم : 8 / 9 / 2022

٥- تاريخ إقرار البرنامج فى مجلس الكلية: 15 / 9 / 2022

٦- منسق البرنامج Prof. / Abdelmonem G. Madboly

٧- المراجعة الداخلية للبرنامج: Prof. Dr. Atef A. Fauda

٨- المراجع الخارجى: Prof. Dina Shokry; Professor of Forensic Medicine & Clinical Toxicology, Cairo University

Professional information : * معلومات متخصصة :

١ - الأهداف العامة للبرنامج :

1- Overall Aims of the Program:

The overall aims of the program are:

- 1.1. To enable the postgraduate to apply the essential knowledge and skills in forensic medicine, clinical toxicology and their related



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basic medical sciences during professional practice.

- 1.2. To accept the postgraduate the awareness of current medical issues in forensic medicine and clinical toxicology for proper analysis of forensic data in service of justice and for proper dealing with the intoxicated patient.
- 1.3. To provide the postgraduate with lifelong learning competencies necessary for continuous professional development.
- 1.4. To accept the postgraduate with principles of medical research in the field of forensic medicine and clinical toxicology.
- 1.5. To demonstrate interpersonal and communication skills that ensure effective information exchange with patients and their families colleagues, medical students and other health professions.
- 1.6. To acquire decision making capabilities in different situations related to forensic medicine and clinical toxicology.
- 1.7. To be aware of public health problems and health policy issues and share in system-based improvement of health care.
- 1.8. To show appropriate attitudes and professionalism.
- 1.9. To work as a member or a leader of a team for dealing with health problems and aid in health promotion.

٢ - المخرجات التعليمية المستهدفة من البرنامج :

2-Intended Learning Outcomes (ILOS):

2.a. Knowledge and Understanding

٢.أ - المعرفة والفهم :



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

- 2.a.1. **List** the medicolegal aspects of different disciplines of clinical forensic medicine and forensic pathology.
- 2.a.2. **Explain** the basics and principles of different branches of toxicology especially clinical, occupational, pediatric and forensic toxicology.
- 2.a.3. **Discuss** the different investigational methods used in the field of forensic chemistry and analytical toxicology.
- 2.a.4. **Illustrate** the basic medical physiological, biochemical and pharmacological basics related to the studied topics in forensic medicine and clinical toxicology.
- 2.a.5. **Explain** the medical background of different organ failure and toxicological causes of medical diseases.
- 2.a.6. **Identify** the effects and integration of practicing forensic medicine and clinical toxicology on community to improve health outcomes.
- 2.a.7. **Describe** the principles of quality in professional practice of forensic medicine and clinical toxicology.
- 2.a.8. **Highlight** ethical principles and medico-legal aspects of practice of clinical toxicology and forensic medicine as well as the medical responsibility.
- 2.a.9. **Discuss** the principles of research methodology and ethics of medical research.
- 2.a.10. **Outline** recent advances in the field of forensic medicine, clinical



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toxicology and related basic scientific branches.

2.b. Intellectual Skills:

٢. ب - القدرات الذهنية :-

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

- 2.b.1. **Design** a diagnostic approach necessary for proper diagnosis and management of intoxicated cases including occupational and pediatric intoxication, and other related medical conditions.
- 2.b.2. **Analyze** different case scenarios of clinical and forensic toxicology, clinical forensic medicine, and forensic pathology as well as the different crime scene evidences investigations, to reach to the cause, mechanism, mode and manner of death.
- 2.b.3. **Choose** the suitable method of analysis needed for toxicological diagnosis either for screening purposes or for confirmatory methods in the living and dead cases.
- 2.b.4. **Construct** a research design and choose proper research methodology in the field of his study, and build upon a research design for thesis work.
- 2.b.5. **Correlate** between different forensic and toxicological conditions and its related physiological, pharmacological and biochemical basis.
- 2.b.6. **Assess** risks during practicing forensic medicine and clinical toxicology.
- 2.b.7. **Plan** for improvement of professional performance in the field of forensic medicine and clinical toxicology.
- 2.b.8. **Solve** medical problems met during practicing forensic medicine and



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clinical toxicology, even with absence of some administrative tools.

2.c. Practical & Clinical Skills: ج. ٢ . مهارات مهنية وعملية :-

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

2.c.1. **Manage** different toxicological cases and other related medical conditions.

2.c.2. **Write** a proper autopsy report on a given case study.

2.c.3. **Write** a primary wound report on different types of traumas and injuries.

2.c.4. **Write** death certificates according to the international form of medical certificate of the cause of death after diagnosing death by different clinical and investigatory methods.

2.c.5. **Identify** sex and ages from bones and by using the X rays films.

2.c.6. **Write** a report on the different medico-legal specimens after their examination by gross and microscopic methods.

2.c.7. **Evaluate** medical care supplied to intoxicated patients to continuously improve patient care based on constant self-evaluation.

د. ٢ . مهارات عامة و منتقلة:

2.d. General and transferable skills:-

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.

2.d.2. **Use** the sources of biomedical information and communication



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technology to remain current with advances in knowledge and practice.

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

2.d.4. **Work** effectively as a member or leader of a health care team or other professional group.

2.d.5. **Communicate** effectively with physicians, other health professionals, and health related agencies.

2.d.6. **Demonstrate** compassion, and respect for all patient's rights and treat all patients equally regardless to their believes, culture and behavior.

2.d.7. **Appraise** himself, others, and his learning needs during daily professional practice.

2.d.8. **Manage** time effectively

3- Academic Standards

٣ - المعايير الأكاديمية للبرنامج:

- **Academic Reference Standards (ARS) of Master Program of forensic medicine and toxicology**, approved in date 5 / 9 / 2013, and in faculty council no. (365) date 16 / 6 / 2013. (ملحق ١)

4- Reference standards

4- العلامات المرجعية:

- a) (مارس ٢٠٠٩) المعايير القياسية العامة لبرامج الدراسات العليا (درجة الماجستير) Issued by the National Authority for Quality Assurance & Accreditation (ملحق ٢)



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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, (ملحق ٣) .

1. Forensic medicine and forensic sciences program, Department of Forensic Medicine, Faculty of Medicine, Nursing and Health Sciences, Monash University. <http://www.med.monash.edu.au/vifm/>

ملحق 4: مصفوفة المعايير الأكاديمية للبرنامج مع المعايير القياسية للدراسات العليا الصادرة عن الهيئة.

ملحق 5: مصفوفة البرنامج مع المعايير الأكاديمية للبرنامج.

ملحق 6: مصفوفة المقررات مع البرنامج Program-Courses ILOs Matrix

(5): Program structure and contents

5 - هيكل ومكونات البرنامج:

أ - مدة البرنامج : عامين

a) Program duration: 4 semesters (2 years)

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

2nd part: - Three Semesters (1.5 year).

Thesis:

يبدأ تسجيلها بعد اجتياز الجزء الأول بنجاح وتجاوز مناقشتها بعد مدة لا تقل عن فصلين دراسيين (سنة من تسجيلها) بشرط اجتياز الجزء الثاني بنجاح.

ب - هيكل البرنامج :

- **Total hours of program = 46 credit hours**
- **1ST part: 10 credit hours**
- **2nd part : 30 credit hours**
- **Thesis : 6 credit hours**
- **Compulsory.....all courses**
- **Elective courses: none**
- **Selective: none**

ج - مستويات ومقررات البرنامج:



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الزامي compulsory

(١) درجة الماجستير في الطب الشرعي و السموم الإكلينيكية (FORE & TOXI 600)

Master of Science in Forensic Medicine & Toxicology (FORE&TOXI 600)

ملاحظات	الإمتحانات							المنهج		
	مجموع الدرجات	إكلينيكي الدرجة	ثنوي الدرجة	علمي الدرجة	التحريي			الساعات المعتدلة	الكود	المقررات الدراسية
					الدرجة	زمن الامتحان	عدد الأوراق			
التدريس والإمتحان تحت مسؤولية القسم	100	10	20	20	50	٢ ساعة	١	2	FORE & TOXI 601	السموم العامة
	50	-	10	20	20	٢ ساعة	١	1	FORE & TOXI 602	السموم التحليلية
	50		10	20	20	٢ ساعة	١	1	FORE & TOXI 603	الكيمياء الطبية الشرعية
	100		50	-	50	٢ ساعة	١	2	FORE & TOXI 604	المسؤولية الطبية وأخلاقيات المهنة
	50		10	20	20	٢ ساعة	١	1	FORE & TOXI 605	الباثولوجيا فيما يخص الطب الشرعي
	١٠٠	25	٢٥	-	50	٢ ساعة	١	2	FORE & TOXI 606	الرباطة العامة فيما يخص الطب الشرعي
	50		20	-	30	٢ ساعة	١	1	FORE & TOXI 607	الإحصاء الطبي البحثي
الجزء الثاني	750	100	200	150	300	٣ ساعة	١	15	FORE & TOXI 608	الطب الشرعي
	750	100	200	150	300	٣ ساعة	١	15	FORE & TOXI 609	السموم الإكلينيكية
								٦		الرسالة
	2000	235	545	380	840			46		المجموع



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First part (one semester):

a- Compulsory courses:

Course Title	Course Code	NO. of Teaching hours per week			Total/1 semester
		Theoretical	practical	Total/W	
1- - General toxicology	FORE&TOX I 601	1,5	1	٢,٥	37.5
2-Analytical toxicology	FORE&TOX I 602	0.5	1	1.5	22.5
3- Forensic Chemistry	FORE&TOX I 603	0.5	1	1.5	22.5
4-Medical ethics	FORE&TOX I 604	2		2	30
5- Pathology	FORE&TOX I 605	0.5	1	1.5	22.5
6- General medicine	FORE&TOX I 606	1.5	1	2.5	37.5
7- Medical statistics	FORE&TOX I 607	1		1	15



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Second part (3 semesters):

a-Compulsory courses:

Course Title	Course Code	credit	NO. of Teaching hours per week			Total teaching hours / 3 semesters
			Theoretical	practical	Total/ Week	
1- Forensic medicine	FORE 60 ^ا	١٥	10	10	20	900 hours
2- Clinical toxicology	FORE 60 ^ب	١٥	10	10	20	900 hours
Total:		٣٠	٢٠	٢٠	٤٠	١٨٠٠ hours

b-Elective courses: none

b- Selective: none

6- محتويات المقررات (راجع توصيف المقررات):
مرفق توصيف المقررات طبقاً للنموذج

(7): Program admission requirements

7 - متطلبات الإلتحاق بالبرنامج :

مادة (17) : يشترط في قيد الطالب لدرجة الماجستير

أ - أن يكون حاصلًا على درجة البكالوريوس في الطب والجراحة من إحدى جامعات جمهورية مصر العربية أو على درجة معادلة لها من معهد علمي معترف به ومعتمدة من المجلس الأعلى للجامعات، بحد أدنى تقدير جيد للتسجيل للماجستير و تقدير مقبول للتسجيل لدرجة للدبلوم.

- يسمح للحاصل على الدبلوم العالي وفقا لنظام هذه اللائحة وبتقدير جيد على الأقل، بتسجيل رسالة لاستكمال درجة الماجستير بشرط ألا يكون قد مر أكثر من ثلاث سنوات على تاريخ حصوله على درجة الدبلوم من كلية الطب- جامعة بنها- وبغض النظر عن تقديره في درجة البكالوريوس وبعد موافقة مجلس القسم ومجلس الكلية.

- يسمح لطالب الماجستير بعد نجاحه في الجزء الأول والثاني ولم يستكمل الرسالة خلال مدة القيد المحددة باللائحة ان يتقدم بطلب استكفاء والحصول على شهاده دبلوم التخصص ، ويحق له التقدم لاستكمال درجه الماجستير مره اخرى خلال



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- ثلاث سنوات من نجاحه فى الجزء الثانى.
- ب - أن يكون قد أمضى السنة التدريبية أو ما يعادلها (سنة الامتياز).
- ج - موافقة جهة العمل أو مايفيد انه طبيب حر
- د - أن يتفرغ للدراسة لمدة سنة على الأقل فى الجزء الثانى (فصلين دراسيين).
- هـ - تسديد الرسوم ومصاريف التدريب واستهلاك الأجهزة

مادة (١٩) : مواعيد القيد وبدأ الدراسة :

أ - يكون التقدم للقيد بالماجستير مرة واحدة فى السنة خلال شهرى يوليو وأغسطس من كل عام . وتبدأ الدراسة لدرجة الدبلوم العالى / الماجستير فى شهر أكتوبر من كل عام.

8 - القواعد المنظمة لإستكمال البرنامج : (طبقاً لما هو مذكور فى اللائحة)

مادة (٢٩) : يشترط فى الطالب لنيل درجة الماجستير فى أحد الفروع الإكلينيكية أو العلوم الطبية الأساسية:

أ- حضور متطلبات المقررات الدراسية والتدريبات الإكلينيكية والعملية والمعملية والميدانية بصفة مرضية طبقاً للساعات المعتمدة على ألا تقل نسبة الحضور عن ٧٥%، وفي حالة عدم استيفاء النسبة المذكورة يحرم الطالب من دخول الامتحان وإذا تكرر عدم الاستيفاء يلغى تسجيل الطالب.

ب- العمل كطبيب مقيم أصلى او منتدب (زائر) فى التخصص بالنسبة للعلوم الإكلينيكية.

ج - يشترط للطبيب الزائر العمل لمدة سنة على الأقل فى قسم التخصص بالكلية بالنسبة للعلوم الإكلينيكية.

د- النجاح فى امتحان الجزئين الأول والثانى من الدرجة.

هـ- اجتياز الطالب الدورات الآتية :

♦ الحاسب الآلى (دورة فى مقدمة الحاسب - دورة فى تطبيقات الحاسب الآلى) .

♦ (أخلاقيات البحث العلمي- منهجية البحث العلمي – الإحصاء الطبي) وذلك مع تسجيل برتوكول الرسالة على أن تكون هذه الدورات من داخل جامعة بنها .

ط - اجتياز اختبار التوفيل بمستوى لا يقل عن ٤٠٠ وحدة للماجستير وذلك قبل مناقشة الرسالة من أحد الجهات المعتمدة وفقاً لمتطلبات الجامعة



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و- إعداد بحث في موضوع تقره الجامعة بعد موافقة مجلس القسم ومجلس الكلية ينتهي بإعداد رسالة تقبلها لجنة التحكيم مع نشر بحث مشتق من الرسالة في مجلة علمية معترف بها وذات موقع إلكتروني ومسجلة بقائمة مجلات النشر بالكلية .

9- Students Assessment Methods:

9- طرق وقواعد تقييم الملتحقين بالبرنامج

م	الوسيلة	مخرجات التعلم المستهدفة
1	Written examination	To assess knowledge and understanding & intellectual skills: 2.a.1.....2.a.10., 2.b.1.....2.b.٨.
2	Oral examination	To assess knowledge and understanding, intellectual skills & General & transferable skills 2.a.1.....2.a.10., 2.b.1.....2.b.٨., 2.d.1.....2.d.8.
3	Practical & clinical examination	To assess Practical & Clinical skills, knowledge and understanding, intellectual skills & General & transferable skills: 2.a.1.....2.a.10., 2.b.1.....2.b.٨. 2.c.1.....2.c.7. and 2.d.1.....2.d.8.
4	Thesis Discussion	TO assess knowledge and understanding, intellectual skills & practical and clinical skills and General & transferable skills: .٧a.1.....2.a.10., 2.b.1.....2.b.٨., 2.d.1.....2.d.8 & 2.c.1.....2.c.7.

Final exam.



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ملاحظات	الامتحانات				التحريري			المناهج			المقررات الدراسية	الجزء الأول
	مجموع الدرجات	اكليبيكي الدرجة	شغوي الدرجة	عملي الدرجة	الدرجة	زمن الامتحان	عدد الأوراق	الساعات المعتمدة	الكود	المقررات الدراسية		
التدريس والامتحان تحت مسئولية القسم	100	10	20	20	50	٢ ساعة	١	2	FORE & TOXI 601	السموم العامة		
	50	-	10	20	20	٢ ساعة	١	1	FORE & TOXI 602	السموم التحليلية		
	50		10	20	20	٢ ساعة	١	1	FORE & TOXI 603	الكيمياء الطبية الشرعية		
	100		50	-	50	٢ ساعة	١	2	FORE & TOXI 604	المسئولية الطبية وأخلاقيات المهنة		
	50		10	20	20	٢ ساعة	١	1	FORE & TOXI 605	البيولوجيا فيما يخص الطب الشرعي		
	١٠٠	25	٢٥	-	50	٢ ساعة	١	2	FORE & TOXI 606	الباطنة العامة فيما يخص الطب الشرعي		
	50		20	-	30	٢ ساعة	١	1	FORE & TOXI 607	الإحصاء الطبي البحثي		
	750	100	200	150	300	٣ ساعة	١	15	FORE & TOXI 608	الطب الشرعي	الجزء الثاني	
	750	100	200	150	300	٣ ساعة	١	15	FORE & TOXI 609	السموم الإكلينيكية		
								٦			الرسالة	
	2000	235	545	380	840			46			المجموع	

10- Evaluation of Program:

10 - طرق تقويم البرنامج:

Evaluator	Tools	Sample
مقيم داخلي (s) Internal evaluator	<ul style="list-style-type: none"> Focus group discussion Meetings Questionnaire 	<u>Reports</u>
مقيم خارجي (s) External Evaluator	<ul style="list-style-type: none"> Reviewing according to external evaluator Checklist report of NAQAA. 	<u>Reports</u>
طلاب السنة النهائية (s) Senior student	مقابلات , استبيان	<u>جميع الطلبة</u>
الخريجون Alumni	مقابلات ، استبيان	<u>عينة لا تقل عن ٥٠% من طلبة آخر ٣ دفعات</u>
أصحاب العمل Stakeholder (s)	مقابلات ، استبيان	<u>عينة ممثلة لجميع جهات العمل</u>



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Others طرق أخرى	None	-----
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11: استراتيجيات التعليم و التعلم علي مستوي البرنامج:

1. استراتيجية التعلم النشط. Active learning
2. استراتيجية التعليم المبني على النتائج. Outcome-based learning
3. Case based learning
4. استراتيجية التعليم باستخدام الوسائل التكنولوجية الحديثة E-Learning

Ass. Prof. /Abdelmonem G. Madboly :

منسق البرنامج

رئيس مجلس القسم :د.د شيرين الخولى

courses

توصيف المقررات Program



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First part
1- General toxicology
2- Analytical toxicology
3- Forensic Chemistry
4- Medical Ethics
5- Pathology
6- General Medicine
7- Medical Statistics
Second part
1-clinical toxicology
2- forensic medicine



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الملحقات :

ملحق ١ : Academic standard of the program

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
Program-Courses ILOs Matrix

ملحق ١: Academic standard of the program:

جامعة بنها

كلية الطب

قسم الطب الشرعي و السموم الأكلينسيه

وثيقة المعايير الأكاديمية المرجعية لبرنامج الماجستير

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

1. Attributes of gratitude.

- 1.1. Have the capability to be a scholar, understanding and applying basics, methods and tools of scientific research and clinical audit in forensic medicine and clinical toxicology.
- 1.2. Appraise and utilize scientific knowledge to continuously update and improve clinical practice in forensic medicine and clinical toxicology.
- 1.3. Acquire sufficient medical knowledge in the basic biomedical, clinical, behavioral and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care in forensic medicine and clinical toxicology.
- 1.4. Provide patient care that appropriate, effective and compassionate for dealing with common health problems and health promotion using evidence-based and update information.
- 1.5. Identify and share to solve health problems in forensic medicine and clinical toxicology.
- 1.6. Acquire all competencies that enable him to provide safe, ethical and evidence based clinical care including use of new technology in forensic medicine and clinical toxicology

- 1.7. Demonstrate interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork, as supervisor, and trainer in relation to colleagues, medical students and other health professions.
- 1.8. Acquire decision making capabilities in different situations related to forensic medicine and clinical toxicology.
- 1.9. Show responsiveness to larger context of the health care system, including e.g. the organization of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations.
- 1.10. Be aware of public health and health policy issues and share in system-based improvement of health care.
- 1.11. Show appropriate attitudes and professionalism.
- 1.12. Demonstrate skills of lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages in forensic medicine and clinical toxicology.

2. Academic Standards.

2.1. Knowledge and understanding.

By the end of Master program, the candidate should recognize and understand the followings.

- 2.1.1. Principles and basic theories and concept in the field of Forensic science, clinical toxicology and related medical sciences.
- 2.1.2. Effect of medical practice of forensic medicine & clinical toxicology and its reflection on community (Candidates must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the

ability to call effectively on other resources in the medical system to provide optimal health care).

2.1.3. Recent advances in the field of Forensic medicine, clinical toxicology and related scientific branches.

2.1.4. Ethical principles and medico-legal aspects of practice of clinical toxicology and forensic medicine as well as medical responsibility.

2.1.5. Principles and basic concepts of quality in professional practice including planning and improvement of performance.

2.1.6. Research methodology and Ethics of medical research.

2.2. Intellectual skills:

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

2.2.1. Evaluation and interpretation data for proper diagnosis in the field of clinical toxicology and forensic medicine.

2.2.2. Solving medical problems, in the absence of some administrative tools.

2.2.3. Correlation between different scientific medical knowledge and their application in forensic medicine and clinical toxicology practice (Evidence-based medicine).

2.2.4. Designing and conducting scientific research, and research hypothesis.

2.2.5. Risk assessment in medical practice in forensic medicine and clinical toxicology.

2.2.6. Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology.

2.2.7. Decision making skills.

2.3. Practical/Professional skills

By the end of Master program, candidate should accept the followings skills:

- 2.3.1. Application of the basic and up to date Professional skills during practicing forensic medicine & clinical toxicology.
- 2.3.2. Writing and evaluating the different medical & medico-legal reports in the field of forensic medicine and clinical toxicology.
- 2.3.3. Evaluation of medical care, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation.

2.4. Communication and transferable skills:

By the end of Master program, candidate should accept the following skills:

- 2.4.1. Interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.
- 2.4.2. Effective use of Internet Technology and healthcare information system in medical practise and patient medical records.
- 2.4.3. Self-appraisal and needs evaluation.
- 2.4.4. Use information by any means; in print or electronic format.
- 2.4.5. Incorporate formative evaluation feedback into daily practice.
- 2.4.6. Team work/leadership in different professional tasks.
- 2.4.7. Time management effectively.
- 2.4.8. Continuous Self-learning ability and medical education program participation.

التعماد مجلس القسم رقم (.....) ، بتاريخ .../...../.....

رئيس مجلس القسم

ملحق 2: المعايير القياسية العامة لبرامج الدراسات العليا

برامج الماجستير

١ - موصفات الخريج

- خريج برنامج الماجستير فى أى تخصص يجب أن يكون قادرا على :
- ١-١ إجادة تطبيق أساسيات ومنهجيات البحث العلمى واستخدام أدواته المختلفة
 - ٢-١ تطبيق المنهج التحليلى واستخدامه فى مجال التخصص
 - ٣-١ تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة فى ماسته المهنية
 - ٤-١ إظهار وعيا بالمشاكل الجارية والرؤى الحديثة فى مجال التخصص
 - ٥-١ تحديد المشكلات المهنية وإيجاد حلول لها
 - ٦-١ إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
 - ٧-١ التوصل بفاعلية والقدرة على قيادة فرق العمل
 - ٨-١ اتخاذ القرار فى سياقات مهنية مختلفة
 - ٩-١ توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها
 - ١٠-١ إظهار الوعى بدوره فى تنمية المجتمع والحفاظ على البيئة فى ضوء المتغيرات العالمية والاقليمية
 - ١١-١ التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة
 - ١٢-١ تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

2- المعايير القياسية العامة

١-٢ المعرفة والفهم :

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

٢-٢ المهارات الذهنية :

- بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- ١-٢-٢ تحليل وتقييم المعلومات فى مجال التخصص والقياس عليها لحل المشاكل
 - ٢-٢-٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
 - ٣-٢-٢ الربط بين المعارف المختلفة لحل المشاكل المهنية
 - ٤-٢-٢ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
 - ٥-٢-٢ تقييم المخاطر فى الممارسات المهنية فى مجال التخصص
 - ٦-٢-٢ التخطيط لتطوير الاداء فى مجال التخصص
 - ٧-٢-٢ اتخاذ القرارات المهنية فى سياقات مهنية متنوعة
 - ٣-٢ المهارات المهنية
- بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- ١-٣-٢ إتقان المهارات المهنية الاساسية والحديثة فى مجال التخصص

٢-٣-٢ كتابة وتقييم التقارير المهنية
٣-٣-٢ تقييم الطرق والادوات القائمة في مجال التخصص

- ٤-٢ المهارات العامة والمنتقلة :
- بانتهاة دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
- ١-٤-٢ التواصل الفعال بأنواعه المختلفة
- ٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية
- ٣-٤-٢ التقييم الذاتي وتحديد احتياجاته التعليمية
- ٤-٤-٢ استخدام المصادر المختلفة لحصول على المعلومات والمعارف
- ٥-٤-٢ وضع قواعد ومؤشرات تقييم اداء الاخرين
- ٦-٤-٢ العمل في فريق سياقات مهنية مختلفة
- ٧-٤-٢ ادارة الوقت بكفاءة
- ٨-٤-٢ التعلم الذاتي والمستمر





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
- obtain highly developed communication skills in clinical consultations with victims of crime and offenders
- write medico-legal reports and provide evidence in courts on a range of clinical situations and consultations
- 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
- 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
- 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	Faculty of Medicine, Nursing and Health Sciences, Monash University	مواصفات الخريج بالمعايير القياسية العامة لبرامج الدراسات العليا (درجة الماجستير)
1.1. Have the capability to be a scholar, understanding and applying basics, methods and tools of scientific research and clinical audit in forensic medicine and clinical toxicology.		إجادة تطبيق أساسيات ومنهجيات البحث العلمي واستخدام أدواته المختلفة
1.2. Appraise and analyze scientific knowledge to continuously update and improve clinical practice in forensic medicine and clinical toxicology.	• demonstrate a thorough working knowledge of the forensic and nursing responsibilities in forensic cases	تطبيق المنهج التحليلي واستخدامه في مجال التخصص
1.3. Acquire sufficient medical knowledge in the basic biomedical, behavioral and clinical sciences, and apply such knowledge in patient care in forensic medicine and clinical toxicology.	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;	تطبيق المعارف المتخصصة ودمجها مع المعارف ذات العلاقة في ممارسته المهنية
1.4. Provide patient care that appropriate, effective and compassionate for dealing with common health problems and health promotion using evidence-		إظهار وعيا بالمشاكل الجارية والرؤى الحديثة في مجال التخصص

based and update information.		
1.5. Identify and share to solve health problems in forensic medicine and clinical toxicology.		تحديد المشكلات المهنية وإيجاد حلول لها
1.6. Acquire all competencies that enable him to provide safe, ethical and evidence based clinical care including use of new technology in forensic medicine and clinical toxicology.	critically evaluate the ethical and legal issues arising in forensic medical practice	إتقان نطاق مناسب من المهارات المهنية المتخصصة واستخدام الوسائل التكنولوجية المناسبة بما يخدم ممارسته المهنية
1.7. Demonstrate interpersonal and communication skills that ensure effective information exchange with patients and their families and teamwork, as supervisor, and trainer in relation to colleagues, medical students and other health professions.	obtain highly developed communication skills in clinical consultations with victims of crime and offenders	التواصل بفاعلية والقدرة على قيادة فرق العمل
1.8. Acquire decision making capabilities in different situations related to forensic medicine and clinical toxicology.		اتخاذ القرار في سياقات مهنية مختلفة
1.9. Show responsiveness to larger context of the health care system, including e.g. the organization of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics,		توظيف الموارد المتاحة بما يحقق أعلى استفادة والحفاظ عليها

and resource allocations		
1.10.Be aware of public health and health policy issues and share in system-based improvement of health care.		إظهار الوعي بدوره في تنمية المجتمع والحفاظ على البيئة في ضوء المتغيرات العالمية والاقليمية
1.11>Show appropriate attitudes and professionalism.		التصرف بما يعكس الالتزام بالنزهة والمصداقية والالتزام بقواعد المهنة
1.12.Demonstrate skills of lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages in forensic medicine and clinical toxicology.		تنمية ذاته أكاديميا ومهنيا وقادرا على التعلم المستمر

أ - المعرفة والفهم:

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
<p><i>By the end of Master program, the candidate should recognize and understand the followings:</i></p> <p>2.1.1.Principles and basic theories and concept in the field of Forensic science, clinical toxicology and related medical sciences.</p>	<p>بأنتهاء دراسة برنامج الماجستير يجب ان يكون الخريج على فهم ودراية بكل من :</p> <p>1-1-2 النظريات والاساسيات المتعلقة بمجال التعلم وكذا في المجالات ذات العلاقة</p>

2.1.2.Effect of medical practice of forensic medicine & clinical toxicology and its reflection on community (Candidates must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the medical system to provide optimal health care).	٢-١-٢- التآثير المتبادل بين الممارسة المهنية وانعكاسها على البيئة
2.1.3.Recent advances in the field of Forensic medicine, clinical toxicology and related scientific branches.	٣-١-٢ التطورات العلمية في مجال التخصص
2.1.4.Ethical principles and medico-legal aspects of practice of clinical toxicology and forensic medicine as well as medical responsibility.	٤-١-٢ المبادئ الاخلاقية والقانونية للممارسة المهنية في مجال التخصص
2.1.5.Principles and basic concepts of quality in professional practice including planning and improvement of performance.	٥-١-٢ مبادئ واساسيات الجودة في الممارسة المهنية في مجال التخصص

2.1.6. Research methodology and Ethics of medical research.	٦-١-٢ اساسيات واخلاقيات البحث العلمى
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ب - القدرات الذهنية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
<i>By the end of Master program, candidate should be able to recognize the followings:</i>	بانتهاؤ دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على :
2.2.1. Evaluation and interpretation data for proper diagnosis in the field of clinical toxicology and forensic medicine.	١-٢-٢ تحليل وتقييم المعلومات فى مجال التخصص والقياس عليها لحل المشاكل
2.2.2. Solving medical problems, in the absence of some administrative tools.	٢-٢-٢ حل المشاكل المتخصصة مع عدم توافر بعض المعطيات
2.2.3. Correlation between different scientific medical knowledge and their application in forensic medicine and clinical toxicology practice (Evidence-based medicine).	٣-٢-٢ الربط بين المعارف المختلفة لحل المشاكل المهنية
2.2.4. Designing and conducting scientific research, and research hypothesis.	٤-٢-٢ اجراء دراسة بحثية او كتابة دراسة علمية منهجية حول مشكلة بحثية
2.2.5. Risk assessment in medical practice in forensic medicine and clinical toxicology.	٥-٢-٢ تقييم المخاطر فى الممارسات المهنية فى مجال التخصص
2.2.6. Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology.	٦-٢-٢ التخطيط لتطوير الاداء فى مجال التخصص
2.2.7. Decision making skills.	٧-٢-٢ اتخاذ القرارات المهنية فى سياقات مهنية متنوعة

ج. مهارات مهنية وعملية :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
<p><i>By the end of Master program, candidate should accept the following skills:</i></p> <p>2.3.1.Application of the basic and up to date Professional skills during practicing forensic medicine & clinical toxicology.</p>	<p>بانتهاؤ دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على : ١-٣-٢ اتقان المهارات المهنية الاساسية والحديثة فى مجال التخصص</p>
<p>2.3.2.Writing and evaluating the different medical & medico-legal reports in the field of forensic medicine and clinical toxicology.</p>	<p>٢-٣-٢ كتابة وتقييم التقارير المهنية</p>
<p>2.2.3.Evaluation of medical care, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation.</p>	<p>٣-٣-٢ تقييم الطرق والادوات القائمة فى مجال التخصص</p>

د . مهارات عامة و منتقلة :

المعايير الأكاديمية للبرنامج	المعايير القياسية العامة (Generic) لبرامج الدراسات العليا (درجة الماجستير)
<p>By the end of Master program, candidate should accept the following skills:</p> <p>2.4.1.Interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.</p>	<p>بانتهاؤ دراسة برنامج الماجستير يجب ان يكون الخريج قادرا على : ١-٤-٢ التواصل الفعال بأنواعه المختلفة</p>
<p>2.4.2.Effective use of Internet Technology and healthcare information system in medical practise and patient medical records.</p>	<p>٢-٤-٢ استخدام تكنولوجيا المعلومات بما يخدم الممارسة المهنية</p>
<p>2.4.3.Self-appraisal and needs evaluation.</p>	<p>٣-٤-٢ التقييم الذاتى وتحديد احتياجاته التعليمية</p>
<p>2.4.4.Use information by any means; in print or</p>	<p>٤-٤-٢ استخدام المصادر المختلفة لحصول</p>

electronic format.	على المعلومات والمعارف
2.4.5. Incorporate formative evaluation feedback into daily practice.	٥-٤-٢ وضع قواعد ومؤشرات تقييم اداء الاخارين
2.4.6. Team work/leadership in different professional tasks.	٦-٤-٢ العمل فى فريق سياقات كهنية مختلفة
2.4.7. Time management effectively.	٧-٤-٢ ادارة الوقت بكفاءة
2.4.8. Continuous Self-learning ability and medical education program participation.	٨-٤-٢ التعلم الذاتى والمستمر



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

أهداف البرنامج	المعايير الأكاديمية للبرنامج (مواصفات الخريج):
1.4.	1.1. Have the capability to be a scholar, understanding and applying basics, methods and tools of scientific research and clinical audit in forensic medicine and clinical toxicology.
1.1.	1.2.Appraise and utilize scientific knowledge to continuously update and improve clinical practice in forensic medicine and clinical toxicology.
1.1.	1.3.Acquire sufficient medical knowledge in the basic biomedical, clinical, behavioral and clinical sciences, medical ethics and medical jurisprudence and apply such knowledge in patient care in forensic medicine and clinical toxicology.
1.2.	1.4.Provide patient care that appropriate, effective and compassionate for dealing with common health problems and health promotion using evidence-based and update information.
1.1.	1.5.Identify and share to solve health problems in forensic medicine and clinical toxicology.
1.3.	1.6.Acquire all competencies that enable him to provide safe, ethical and evidence based clinical care including use of new technology in forensic medicine and clinical toxicology

1.5. 1.9.	1.7.Demonstrate interpersonal and communication skills that ensure effective information exchange with individual patients and their families and teamwork, as supervisor, and trainer in relation to colleagues, medical students and other health professions.
1.6.	1.8.Acquire decision making capabilities in different situations related to forensic medicine and clinical toxicology.
1.7.	1.9.Show responsiveness to larger context of the health care system, including e.g. the organization of health care, partnership with health care providers and managers, practice of cost-effective health care, health economics, and resource allocations
1.7.	1.10.Be aware of public health and health policy issues and share in system-based improvement of health care.
1.8.	1.11Show appropriate attitudes and professionalism.
1.3.	1.12.Demonstrate skills of lifelong learning and maintenance of competence and ability for continuous medical education and learning in subsequent stages in forensic medicine and clinical toxicology.

نواتج تعلم البرنامج											المعايير الأكاديمية للبرنامج
المعرفة و الفهم											
2.a.10	2.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.		
					√	√	√	√	√		<p><i>By the end of Master program, the candidate should recognize and understand the followings:</i></p> <p>2.1.1.Principles and basic theories and concept in the field of Forensic science, clinical toxicology and related medical</p>

											sciences.
					√						2.1.2.Effect of medical practice of forensic medicine & clinical toxicology and its reflection on community (Candidates must demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the medical system to provide optimal health care).
		√									2.1.3.Recent advances in the field of Forensic medicine, clinical toxicology and related scientific branches.
			√								2.1.4.Ethical principles and medico-legal aspects of practice of clinical toxicology and forensic medicine as well as medical responsibility.
					√						2.1.5.Principles and basic concepts of quality in professional practice including planning and improvement of performance.

				√							2.2.6.Planning for improvement of professional performance in the field of forensic medicine and clinical toxicology.
						√	√				2.2.7.Decision making skills.

نواتج تعلم البرنامج											المعايير الأكاديمية للبرنامج المهارات المهنية
Practical/Professional skills											
				2.c.7	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2.	2.c.1.	
						√				√	<i>By the end of Master program, candidate should accept the followings skills:</i>
					√		√	√	√		2.3.1.Application of the basic and up to date Professional skills during practicing forensic medicine & clinical toxicology.
											2.3.2.Writing and evaluating the different medical & medico-legal reports in the field of forensic medicine and clinical toxicology.
				√							2.2.3.Evaluation of medical care, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation.

نواتج تعلم البرنامج										المعايير الأكاديمية للبرنامج	
General and transferable skill										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.	
					√	√					<p>By the end of Master program, candidate should accept the following skills:</p> <p>2.4.1. Interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.</p> <p>2.4.2. Effective use of Internet Technology and healthcare information system in medical practise and patient medical records.</p> <p>2.4.3. Self-appraisal and needs evaluation.</p> <p>2.4.4. Use information by any means; in print or electronic format.</p> <p>2.4.5. Incorporate formative evaluation feedback into daily practice.</p> <p>2.4.6. Team work/leadership in different professional tasks.</p> <p>2.4.7. Time management effectively.</p> <p>2.4.8. Continuous Self-learning ability and medical education program participation.</p>
									√		
				√							
										√	
				√							
							√				
			√								
								√			

ملحق (6) مصفوفة المعارف والمهارات للبرنامج الدراسي

المعارف Knowledge & Understanding										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	
■								■		FORE601a	Occupational toxicology
■							■	■		FORE601b	Forensic Chemistry & Analytical toxicology
■							■			FORE602a	Pharmacology
■							■			FORE602b	Biochemistry
■							■			FORE602c	Physiology
■							■			FORE603	Clinical pathology
■								■		FORE604	Pediatric medicine
■	■	■	■	■					■	FORE605	Forensic medicine
■	■	■	■	■				■		FORE606a	Clinical toxicology
■					■					FORE606b	General medicine

مهارات ذهنية Intellectual Skills									ILOs	
2.b.8.	2.b.7	2.b.6	2.b.5	2.b.4	2.b.3	2.b.2	2.b.1		Courses & codes	
						■	■		FORE601a	Occupational toxicology
						■			FORE601b	Forensic Chemistry & Analytical toxicology
			■						FORE602a	Pharmacology
			■						FORE602b	Biochemistry
			■						FORE602c	Physiology

					■			FORE603	Clinical pathology
						■	■	FORE604	Pediatric medicine
■	■	■		■				FORE605	Forensic medicine
■	■	■		■				FORE606a	Clinical toxicology
		■						FORE606b	General medicine

مهارات عملية و مهنية Practical & Clinical Skills								ILOs	
	2.c.7.	2.c.6	2.c.5	2.c.4	2.c.3	2.c.2	2.c.1	Courses & codes	
								FORE601a	Occupational toxicology
								FORE601b	Forensic Chemistry & Analytical toxicology
								FORE602a	Pharmacology
								FORE602b	Biochemistry
								FORE602c	Physiology
								FORE603	Clinical pathology
							■	FORE604	Pediatric medicine
			■	■	■	■		FORE605	Forensic medicine
		■						FORE606a	Clinical toxicology
		■					■	FORE606b	General medicine

مهارات عامة General and transferable								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	
							■	FORE601a	Occupational toxicology
							■	FORE601b	Forensic Chemistry & Analytical toxicology
							■	FORE602a	Pharmacology
							■	FORE602b	Biochemistry
							■	FORE602c	Physiology
							■	FORE603	Clinical pathology
							■	FORE604	Pediatric medicine

■	■	■	■	■	■	■	■	FORE605	Forensic medicine
■	■	■	■	■	■	■	■	FORE606a	Clinical toxicology
		■	■	■		■	■	FORE606b	General medicine

رئيس القسم
التوقيع : ا.د: شيرين الخولى

أستاذ المادة
التوقيع





Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: General Toxicology.

Code: FORE & Toxi 601

Academic Year (2020- 2021)

- **Department offering the course:** Forensic Medicine and clinical Toxicology
- **Major or minor elements of the program:** Major.
- **Academic level:** First part of the program
- **Date of specification approval:**
 - Department council: date: 8 / 9 /2020.
 - Faculty council date: 21 / 9 /2020.

A) Basic Information:

- **Allocated marks:** 100 marks.
- **Course duration:** 15 weeks of teaching.
- **Credit hours:** 2 hours
- **Teaching hours:** 3 hours / week.

Method of teaching	Teaching Hours / week	Total hours
1- Lectures/ Seminars/ Case based learning/ Directed self-learning	1	15
2- Practical / Clinical	2	30
Total	3	45

B) Professional Information:

1- Overall Aim of the Course:

- To provide scientific **knowledge** necessary for practicing clinical toxicology.
- To provide **practical and clinical skills** necessary for proper dealing with intoxicated patient and to learn competencies necessary for continuous professional development.
- To provide the students with **professional education and communication skills** essential for establishing & maintaining good doctor/ patient relationship, appropriate attitudes with colleagues and para-medicals.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

2.a.1. Define different general toxicological terminology.

2.a.2. State general steps of management of intoxicated patient, methods of decontamination and enhanced elimination of toxin and antidotal therapy.

2.a.3. Explain the mechanism of xenobiotics induced cardiac dysrhythmias and conduction abnormalities.

2.a.4. Illustrate the role of diagnostic imaging in management of many toxicological emergencies and list the different imaging modalities that can be used (computed tomography; enteric and intravascular contrast studies; ultrasonography; transesophageal echocardiography; magnetic resonance imaging; etc.....).

2.a.5. Appraise the toxicology laboratory testing in measuring the concentration of xenobiotics and other acutely toxic xenobiotics.

2.a.6. List techniques used to prevent gastrointestinal absorption and the indication and contraindication of each technique.

2.a.7. Classify pharmacokinetic and toxokinetic principles and classical versus physiologic compartment toxicokinetics.

2.a.8. Compare between structure of important reactive species, biochemical and metabolic principles, neurotransmitters and neuromodulators and withdrawal principles.

2.a.9. Demonstrate xenobiotic effect on thermoregulation, fluid, electrolyte and acid-base principles.

2.a.10. Enumerate the physiologic changes during pregnancy that affect drug pharmacokinetics, pediatric perspective to the application of generally accepted toxicological principles and pathophysiologic disorders exacerbated by xenobiotics in the elderly.

2.b. Practical Skills

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

2.b.1. Write a primary toxicological report.

2.b.2. Perform proper physical examination of the intoxicated patients.

2.b.3. Manage different toxicological cases, through the followings: *Apply* ABC (patent airway, breathing and circulation) for life saving of patients, *Perform* gastric lavage and *Insert* Ryle tube.

2.b.4. Identify toxicological laboratory tests.

2.b.5. Perform bedside test to detect different toxins or confirm the diagnosis rapidly before lab result.

2.c. Intellectual Skills:

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

2.c.1. Interpret case scenario of clinical toxicology cases to put a proper plan for their management.

2.c.2. Differentiate between similar cases of intoxication to formulate precise and accurate differential diagnosis of intoxicated cases.

2.c.3. Provide a diagnostic approach necessary for proper diagnosis and management of intoxicated cases.

2.c.4. Interpret ECG finding in clinical toxicology practice.

2.c.5. Analyze different lab principles of intoxicated patient and formulate treatment plan.

2.c.6. Appraise tests that can be conveniently performed at the bedside.

2.c.7. Establish a proper technique to prevent GIT absorption in intoxicated patient.

2.c.8. Evaluate fluid, electrolyte, and acid–base status in poisoned or overdosed patient.

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. Present information clearly in written, electronic and oral forms.

2.d.5. Establish effective interpersonal relationship to communicate ideas and arguments.

3- Course contents:

Subject	Lectures (hrs)	%	Practical (hrs)	%	Total (hrs)	% of Total
1- Initial evaluation of the patient: vital signs& Toxic syndrome.	1	6.7	3	10	4	8.9 %
2- Principles of managing poisoned or overdosed patients	1	6.7	4	13.3	5	11.1%
3- ECG principles	1	6.7	3	10	4	8.9 %

4- Diagnostic imaging	1	6.7	3	10	4	8.9%
5- Lab principles	1	6.7	3	10	4	8.9 %
6- Techniques used to prevent GITabsorption	2	13.3	6	20	8	17.8 %
7- Pharmaco kinetic& Toxokinetic principles	2	13.3	----		2	4.4
8- Biochemical& Molecular basis: *Chemical principles *metabolic principles *Neurotransmitters *Withdrawal principles	2	13.3	----		2	4.4
9- Patho physiologic basis *Thermoregulatory principles *Fluid –Electrolyte& Acid base principles	2	13.3	3	10	5	11.1
10- Special population: *Reproductive& perinatal principles *Pediatric principles *Geriatric principles	2	13.3	5	16.7	7	15.6
TOTAL	15	100	30	100	45	100%

4- Teaching and learning methods:

METHODS USED:

1. Modified lectures.
2. Seminars.
3. Directed self-learning.
4. Case based learning
5. Practical/clinical classes.

Method	Evidence	ILOs
Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.10., 2.c.1.-----2.c.8 2.d.1.-----2.d.5

Case based learning	Case scenarios	2.a.1-----2.a.10., 2.c.1.----2.c.6 2.d.1.----2.d.5
Directed self-learning.	Log book	2.a.1-----2.a.10., 2.c.1.----2.c.8 2.d.1.----2.d.5
Seminars	Log book	2.a.1-----2.a.10., 2.c.1.----2.c.8 2.d.1.----2.d.5
Practical classes	Toxicological reports, log book.	2.b.1.----2.b.5

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA:

1. Lectures/seminars (at least 50% attendance).
2. Practical & clinical (at least 75% attendance).
3. Log book (practical reports & students activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.10., 2.c.1.----2.c.8 2.d.1.----2.d.5
Oral examination	Viva card system	2.a.1-----2.a.10., 2.c.1.----2.c.8 2.d.1.----2.d.5
Practical & clinical examination [OSPE/OSCE]	Practical, clinical & Reports	2.b.1.----2.b.5

5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	8
2- Final exam	15

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
a- Written	50	50
b- Practical & Field training	20	20
c- Oral	20	20
d- Clinical	10	10
Total	100	100

5-E) Examination description :

Examination	Description
End semester:	
a- Written	Short essay, select (MCQs), & case study, true or false with explanations.
b- Practical	Write reports and comments on specimens
c- Oral	Viva cards divided into in two sessions
c- Oral	Two sessions (forensic and toxicology)
3- Assignments & other activities	Round assignments, projects , log book... etc.

6- List of references:

6.1- Basic materials:

- Goldfrank's Manual of Toxicologic Emergencies: Hoffman, R.S.; Nelson, L.S.; Howland, M.A. et al. (eds.), McGraw-Hill Companies, New York, 9th ed., (2019).

6.2- Essential books (textbooks):

- Poisoning & Drug Overdose. By: **Olson, K.R.** (ed.), Lange medical books/McGraw-Hill, New York, Chicago, Toronto, (2018).

6.3- Recommended books:

- Goldfrank's Toxicologic Emergencies. By: Flomenbaum, N.E.; Goldfrank, L.R.; Hoffman, R.S., et al. (eds.), McGraw-Hill, New York, 8th ed., (2016).
- Clinical Toxicology. By: **Ford, M.D.; Delaney, K.A.; Ling, L.J. et al.** (eds.), W.B. Saunders Co., Philadelphia, 1st ed., (2011).

6.4- Periodicals, Web sites, etc:

-<http://www.medscape.com>.

-<http://www.pubmed.com>.

-<http://www.master.emedicine.com/maint/cme.asp>.

-<http://www.science direct.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: SIXTH floor
- Department lab.
- poison control unit (PCU).

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة/ بنها كلية / الطب البشرى قسم الطب الشرعى و السموم الاكلينيكية

السموم العامة	مسمى المقرر
FORE & TOXI 601	كود المقرر

مهارات عامة	مهارات مهنية	مهارات ذهنية	المعارف الرئيسية	أسبوع الدراسة	المحتويات للمقرر
2.d.1	2.b.1	2.c.3	2.a.1	1	1- Initial evaluation of the patient: vital signs & Toxic syndrome.
2.d.5	2.b.2 2.b.3	2.c.1 2.c.2	2.a.2	2	2- Principles of managing poisoned or overdosed patients
2.d.2	-	2.c.4	2.a.3	3	3- ECG principles

2.d.3	-	-	2.a.4	4	4- Diagnostic imaging
-	2.b.4 2.b.5	2.c.5 2.c.6	2.a.5	5	5- Lab principles
2.d.1	2.b.3	2.c.7	2.a.6	6,7	6- Techniques used to prevent GITabsorption
-	-	-	2.a.7	8,9	7- Pharmaco kinetic& Toxokinetic principles
2.d.2	-	-	2.a.8	10,11	8- Biochemical& Molecular basis: *Chemical principles *metabolic principles *Neurotransmitters *Withdrawal principles
-	-	2.c.8	2.a.9	12,13	9- Patho physiologic basis *Thermoregulatory principles *Fluid – Electrolyte& Acid base principles
-	2.b.2	-	2.a.10	14,15	10- Special population: *Reproductive& perinatal principles *Pediatric principles *Geriatric principles

Course coordinator: prof. Abdelmonem G.Madboly.

Head of Department: Prof. Sheren El-kholy.

Date: 8 September

2020



Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: Analytical toxicology

Code: Fore & Toxi 602

Academic Year (2020– 2021)

- **Department offering the course:** Forensic & toxicology department.
- **Major or minor elements of the program:** Major.
- **Academic level:** First part of the program.
- **Date of specification approval:**
 - Department council: date: ٨ / 9 / 202٠.
 - Faculty council date: ٢١ / 9 / 202٠.

A) Basic Information:

- **Allocated marks:** 50 marks.
- **Course duration:** ١٥ weeks of teaching.
- **Credit hours:** ١ hour.
- **Teaching hours:** 3 hours / week.

Method of teaching	Teaching Hours / week	Total hours
1- Lectures/ Seminars/ Case based learning/ Directed self-learning	1/ week	15
2- Practical / Clinical	2/ week	30
Total	3/week	45

B) Professional Information:

1- Overall Aim of the Course:

- To provide scientific knowledge of analytical toxicology and its applications in the clinical field.
- To provide practical and clinical skills necessary for proper dealing with toxicological samples and the toxicological laboratory.
- To provide the students with professional education and communication skills essential for establishing & maintaining good doctor/ patient relationship, appropriate attitudes with colleagues and para-medicals.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

2.a.4. State applications of analytical toxicology in drug abuse screening and therapeutic drug monitoring.

2.a.5. List guidelines for collection of biological samples for analytical toxicology, clinical and forensic toxicological analysis.

2.a.6. Discuss different test methods used in the toxicology laboratory.

2.a.7. Enumerate bed side Toxicological tests.

2.b. Practical Skills

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

2.b.1. Perform a drug screening test.

2.b.2. identify methods of sampling and the techniques of toxicological analysis (Gas chromatography, HPLC, spectrophotometry, etc....)

2.b.3. Apply some common bed side toxicological tests.

2.c. Intellectual Skills:

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

2.c.1. Interpret the results of drug screening tests.

2.c.2. Differentiate between different methods of sampling.

2.c.3. classify different methods of toxicological analysis and bed side tests.

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. Present information clearly in written, electronic and oral forms.

3- Course contents :

Subject	Lectures (hrs)	%	Practical (hrs)	%	Total (hrs)	% of Total
1- Over view and applications of analytical toxicology:	4	26.6	8	26.6	12	26.6%
2- Sampling:	4	26.6	8	26.6	12	26.6%
3- Different test methods used in the toxicology laboratory:	5	33.3	10	33.3	15	33.3%
4- Bed side Toxicological tests:	2	13.3	4	13.3	6	13.3%
TOTAL	15	100	30	100	45	100%

4- Teaching and learning methods:

METHODS USED:

6. Modified lectures.
7. Seminars.

8. **Directed self-learning.**
9. **Case based learning**
10. **Practical/clinical classes.**

Method	Evidence	ILOs
Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.4 2.c.1.----2.c.3 2.d.1.----2.d.4
Case based learning	Case scenarios	a.1-----2.a.4.2 c.1.----2.c.3.2 2.d.1.----2.d.4
Directed self-learning.	Log book	2.a.1-----2.a.4 2.c.1.----2.c.3 2.d.1.----2.d.4
Seminars	Log book	2.a.1-----2.a.4 2.c.1.----2.c.3 2.d.1.----2.d.4
Practical classes	Toxicological reports, log book.	2.b.1.----2.b.3

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA:

4. Lectures/seminars (at least 50% attendance).
5. Practical & clinical (at least 75% attendance).
6. Log book (practical reports & students' activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
-------------	-----------------	-----------------------

Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.4 2.c.1.-----2.c.3 2.d.1.-----2.d.4
Oral examination	Viva card system	2.a.1-----2.a.4 2.c.1.-----2.c.3 2.d.1.-----2.d.4
Practical & clinical examination [OSPE/OSCE]	Practical, clinical & Reports	2.b.1.-----2.b.3

5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	By the end of the 5 th week and the end of the 10 th week
2- Final exam	At the end of the 15 th week

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
e- Written	20	40%
f- Practical & Field training	20	40%
c- Oral	10	20%
Total	50	100%

5-E) Examination description :

Examination	Description
End semester: d- Written e- Practical f- Oral c- Oral	Short assay, select (MCQs), & case study, true or false with explanations. Write reports and comments on specimens(OSPE &OSCE) Viva cards divided into in two sessions Two sessions (forensic and toxicology)

3- Assignments & other activities

Round assignments, projects , log book... etc.

6- List of references:

6.1- Basic materials:

- Department books by staff members

6.2- Essential books (textbooks):

- Goldfrank's Manual of Toxicologic Emergencies: Hoffman, R.S.; Nelson, L.S.; Howland, M.A. et al. (eds.), McGraw-Hill Companies, New York, 9th ed. (2019).
- Poisoning & Drug Overdose. By: **Olson, K.R.** (ed.), Lange medical books/McGraw-Hill, New York, Chicago, Toronto (2022)

6.3- Recommended books:

- Clarke's Analytical Forensic Toxicology Clinical Toxicology. Adam Negrusz (ed.); Gail Cooper (ed.), Pharmaceutical Press, (2017).
- Fundamentals of Analytical Toxicology: Robert J. Flanagan, Andrew Taylor, Ian D. Watson, Robin Whelpton (2020).

6.4- Periodicals, Web sites, etc:

- <http://www.pubmed.com>.
- <http://sciencedirect.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: SIXTH floor
- Department lab.

مصنوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة/ بنها . كلية / الطب البشري قسم. الطب الشرعي والسموم

السموم التحليلية

مسمى المقرر

مهارات عامة	مهارات مهنية	مهارات ذهنية	المعارف الرئيسية	أسبوع الدراسة	المحتويات للمقرر
2.d.2	2.b.1	2.c.1	2.a.1	Week1,2	applications of analytical toxicology
2.d.2	2.b.1	2.c.1	2a1	Week3,4	Drug abuse .screening
2.d.2	2.b.2	2.c.2	2.a.2	Week5	Sample requirements for general analytical toxicology
2d2	2b2	2c2	2a2	Week6	Guidelines for collection of biological samples for analytical .toxicology clinical and forensic toxicological analysis
2d3	2b2	2c3	2a3	Week7,8	Screening methods
2d3	2b2	2c3	2a3	Week9,10	Methods of confirmatory .tests
2d3	2b2	2c3	2a3	Week11,12	Substances are often not detected by toxicological .screens

2d1	2b3	2c3	2a4	13,14,15	Bed side Toxicological tests

Course coordinator:

Head of Department: Prof. dr./Shereen El-Kholy

Date: September 2020





Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: ...Forensic Chemistry.....
Code: FORE&TOXI 603
Academic Year (2020– 2021)

- **Department offering the course:** Forensic Medicine and Clinical Toxicology Department.....
- **Major or minor elements of the program...**Major element.....
- **Academic level:** First partMaster degree.....
- **Date of specification approval:**
 - Department council: date: 8 / 9 /2021.
 - Faculty council date: / 9 /2021.

A) Basic Information:

- **Allocated marks:** ...50..... marks.
- **Course duration:** (one semester)...15..... weeks of teaching.
- **Credit hours:** ...1..... hours
- **Teaching hours:** ...15..... hours / week.

Method of teaching	Teaching Hours / week	Total hours
1- Lectures/ Seminars/ Case based learning/ Directed self-learning	1/ week	15
2- Practical / Clinical	2 /week	30
Total	45	45

B) Professional Information:

1- Overall Aim of the Course:

- To provide scientific **knowledge** of DNA identification and analysis
- To provide scientific **knowledge** about quantity and quality of D.N.A samples
- To provide scientific **knowledge** about Dactylography
- To provide **practical and clinical skills** necessary for proper dealing with physical evidences

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

2.a.9. State general steps of identification of DNA sample

2.a.10. Explain procedure of DNA analysis

2.a.11. Discuss Procedure for determination quantity and quality of D.N.A

2.a.12. Enumerate different types of physical evidences

2.a.13. List steps of identification of physical evidences.

2.a.14. Explain methods of identification and analysis of each physical evidences

2.b. Practical Skills: *By the end of the course, students should be able to*

2.b.1. Identify different types of physical evidences (blood, semen, saliva, hair,)

2.b.2. Analyze methods of sampling of different physical evidences in Forensic practice

2.b.3. Analyze different problems of interpretation of samples.

2.b.4. Interpret common medicolegal implications associated with DNA typing.

2.c. Intellectual Skills:

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

2.c.1. Correlate between different physical evidences and different samples in case scenarios of forensic medicine to reach proper diagnosing of case.

2.c.2. Interpret common medicolegal implications associated with DNA typing.

2.c.3. Analyze different risks of interpretation of physical evidence collection and preservation.

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. Present information clearly in written, electronic and oral forms.

2.d.5. Establish effective interpersonal relationship to communicate ideas and arguments.

3- Course contents

Subject	Lectures (hrs)	%	Practical (hrs)	%	Total (hrs)	% of Total
1- D.N.A Identification:	2	5	6	5	8	5 %
2- DNA analysis:	2	5	6	5	8	5 %
3- DNA Typing	2	10	6	10	8	10%
4- New advances in DNA:	2	5	-	-	2	5 %
5- Identification& types of physical evidence	4	10	6	15	10	10 %

6- Blood stain:	2	15	4	15	6	15 %
7- Seminal stain:	2	10	3	10	5	10 %
8- Hair	2	10	4	10	6	10%
9 -Urine stain Saliva Fecal stain Vaginal stain Teeth and bite marks	4	15	4	15	8	15%
10- Dactylography	4	10	4	10	8	10%
11- Non biological evidences	4	5	2	5	6	5%
TOTAL	30	100	45	100	75	100%

4- Teaching and learning methods:

METHODS USED:

- 11.Modified lectures.
- 12.Seminars.
- 13.Directed self-learning.
- 14.Case based learning
- 15.Practical/clinical classes.

Method	Evidence	ILOs
Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.6., 2.c.1.----2.c.3 2.d.1.----2.d.5
Case based learning	Case scenarios	2.a.1-----2.a.6., 2.c.1.----2.c.3 2.d.1.----2.d.5
Directed self-learning.	Log book	2.a.1-----2.a.6., 2.c.1.----2.c.3 2.d.1.----2.d.5
Seminars	Log book	2.a.1-----2.a.6.,

		2.c.1.----2.c.3 2.d.1.----2.d.5
Practical classes	Toxicological reports, log book.	2.b.1.----2.b.4

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA:

7. Lectures/seminars (at least 50% attendance).
8. Practical & clinical (at least 75% attendance).
9. Log book (practical reports & students activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.6., 2.c.1.----2.c.3 2.d.1.----2.d.5
Oral examination	Viva card system	2.a.1-----2.a.6., 2.c.1.----2.c.3 2.d.1.----2.d.5
Practical & clinical examination [OSPE/OSCE]	Practical, clinical & Reports	2.b.1.----2.b.4

5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	
2- Final exam	

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
--------------------	------------------------	-------------------------

g- Written	20	40%
h- Practical & Field training	20	40%
c- Oral	10	20%
Total	50	100%

5-E) Examination description :

Examination	Description
End semester: g- Written h- Practical i- Oral c- Oral	Short assay, select (MCQs), & case study, true or false with explanations. Write reports and comments on specimens Viva cards divided into in two sessions Two sessions (forensic and toxicology)
3- Assignments & other activities	Round assignments, projects , log book... etc.

6- List of references:

6.1- Basic materials:

- Department books by staff members

6.2- Essential books (textbooks):

- Simpsons Forensic Medicine, 14th edition pdf, 2019.
- DiMaio Forensic Pathology, 2021

6.3- Periodicals, Web sites, etc:

- <http://www.pubmed.com>.
- <http://sciencedirect.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: SIXTH floor
- Department lab.

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة: كلية / قسم

مسمي المقرر	كيمياء طبية شرعية
كود المقرر	: FORE&TOXI 603

المحتويات للمقرر	أسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
DNA	الاسبوع الاول والثاني	2.a.1,2.a.2,2.a.3	2.c.2	2.b.4	2.d.1.....2.d.6
BIOLOGICAL EVIDENCE	الاسبوع الثالث و الرابع	2.a.4,2.a.5,2.a.6	2.c.1,2.c.3	2.b.1, 2.b.2	2.d.1.....2.d.6
BLOOD	الاسبوع الخامس والسادس	2.a.4,2.a.5,2.a.6	2.c.1,2.c.3	2.b.1, 2.b.2,2.b.3	2.d.1.....2.d.6
SEMEN	الاسبوع السابع	2.a.4,2.a.5,2.a.6	2.c.1,2.c.3	2.b.1, 2.b.2,2.b.3	2.d.1.....2.d.6
HAIR	الاسبوع الثامن	2.a.4,2.a.5,2.a.6	2.c.1,2.c.3	2.b.1, 2.b.2, 2.b.3	2.d.1.....2.d.6
URINE, SALIVA,.....	الاسبوع التاسع و العاشر	2.a.4,2.a.5,2.a.6	2.c.1,2.c.3	2.b.1, 2.b.2,2.b.3	2.d.1.....2.d.6
DACTYLOGRAPHY	الاسبوع الحادى عشر والاثنى عشر والثالث عشر	2.a.4,2.a.5,2.a.6	2.c.1,2.c.3	2.b.1, 2.b.2,2.b.3	2.d.1..2.d.6
NON BIOLOGICAL EVIDENCE	الاسبوع الرابع عشر والخامس عشر	2.a.4,2.a.5,2.a.6	2.c.1,2.c.3	2.b.1, 2.b.2, 2.b.3	2.d.1.2.d.6

Course coordinator:

Head of Department: Prof.

Date: September

2020





Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: Medical Ethics

Code: FORE & TOXI 604

Academic Year (2020– 2021)

- **Department offering the course:** forensic medicine & clinical toxicology.
- **Major or minor elements of the program:** Major.
- **Academic level:** First part of the program.
- **Date of specification approval:**
 - Department council: date: 8/ 9/2020.
 - Faculty council date: 21/ 9/2020.

A) Basic Information:

- **Allocated marks:** 100 marks.
- **Course duration:** 15 weeks of teaching.
- **Credit hours:** 2 hours.
- **Teaching hours:** 2 hours / week.

Method of teaching	Teaching Hours / week	Total hours
Lectures/ Seminars/ Case based learning/ Directed self-learning	2/ week	30
Total	2/ week	30

B) Professional Information:

1- Overall Aim of the Course:

- To provide basic scientific knowledge of medical ethics.

- To provide essential practical and clinical skills necessary for proper dealing with ethical problems.
- To provide the students with professional education and communication skills essential for establishing & maintaining good doctor/ patient relationship, appropriate attitudes with colleagues and para-medicals.
- To introduce of the basic facts of medical ethics for the medical students.
- To provide appropriate ethical and professional education necessary for establishment of good communication with patients and colleagues.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

- 2.a.15.** *List* principles of medical ethics.
- 2.a.16.** *Discuss* requirements for informed consent.
- 2.a.17.** *Enumerate* aspects of medical confidentiality and confidentiality disclosure.
- 2.a.18.** *Identify* ethical issues for biochemical research.
- 2.a.19.** *Discuss* Doctor/Patient relationship.
- 2.a.20.** *Illustrate* medical negligence and malpractice.
- 2.a.21.** *Explain* aspects of euthanasia.
- 2.a.22.** *Discuss* ethical dilemma.

2.c. Intellectual Skills:

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

- 2.c.1.** *Interpret* case scenario of principles of medical ethics.
- 2.c.2.** **Design** an informed consent
- 2.c.3.** **Analyse** Ethical issues for biochemical research
- 2.c.4.** **Differentiate** between similar cases of Medical negligence and Malpractice.

2.c.5. Design an informed consent

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

2.d.5. *Establish* effective interpersonal relationship to communicate ideas and arguments.

3- Course contents:

Subject	Lectur es (hrs)	%	Total (hrs)	% of Total
1- Principles of medical ethics.	6	20	6	20 %
2- Consent.	3	10	3	10 %
3-Medical Confidentiality.	3	10	3	10 %
4- Confidentiality disclosure.	3	10	3	10 %
5-Ethical issues for biochemical research.	3	10	3	10 %
6- Doctor/Patient relationship.	3	10	3	10 %
7-Medical neglicance and Malpractice.	3	10	3	10 %
8-Euthanasia.	3	10	3	10 %
9-Ethical dilemma.	3	10	3	10 %
TOTAL	30	100	30	100%

4- Teaching and learning methods:

METHODS USED:

- 16.Modified lectures.
- 17.Seminars.
- 18.Directed self-learning.
- 19.Case based learning
- 20.Practical/clinical classes.

Method	Evidence	ILOs
Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.8 2.c.1-----2.c.4 2.d.1-----2.d.5
Case based learning	Case scenarios	2.a.1-----2.a.8 2.c.1-----2.c.4 2.d.1-----2.d.5
Directed self-learning.	Log book	2.a.1-----2.a.8 2.c.1-----2.c.4 2.d.1-----2.d.5
Seminars	Log book	2.a.1-----2.a.8 2.c.1-----2.c.4 2.d.1-----2.d.5
Practical classes	Toxicological reports, log book.	2.b.1-----2.b.4

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA:

- 10.Lectures/seminars (at least 50% attendance).
- 11.Practical & clinical (at least 75% attendance).
- 12.Log book (practical reports & students activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.4 2.c.1-----2.c.4 2.d.1-----2.d.5

Oral examination	Viva card system	2.a.1-----2.a.4 2.c.1.----2.c.4 2.d.1.----2.d.5
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5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	By the end of 5 th week By the end of 10 th week
2- Final exam	15 TH week

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
i- Written	50	50
b- Oral	50	50
Total	100	100

5-E) Examination description :

Examination	Description
End semester:	
j- Written	Short essay, select (MCQs), & case study, true or false with explanations.
k- Oral	Viva cards divided into in two sessions
c- Oral	Two sessions (forensic and toxicology)
3- Assignments & other activities	Round assignments, projects , log book... etc.

6- List of references:

6.1- Basic materials:

- Department books by staff members
- seminars of medical ethics

6.2- Essential books (textbooks):

- Furlong, E. (Ed.). (2018). Health Care Ethics. Jones & Bartlett Learning.

6.3- Recommended books:

- Loewy, E. H. (2013). Textbook of Medical Ethics. Springer Science & Business Media.

6.4- Periodicals, Web sites, etc:

- <http://www.pubmed.com>.
- <http://sciencedirect.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: SIXTH floor
- Department lab.

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة/ بنها
الكلينيكية
كلية / الطب البشري
قسم/ الطب الشرعي والسموم

Medical ethics		مسمى المقرر		المحتويات للمقرر
FORE & TOXI 604		كود المقرر		
مهارات عامة	مهارات ذهنية	المعارف الرئيسية	أسبوع الدراسة	
2.d.2	2.c.1	2.a.1	1 st , 2 nd week	1- Principles of medical ethics.
2.d.4	2.c.2	2.a.2	4 th week	2- Consent.
2.d.1	---	2.a.3	5 th week	3-Medical Confidentiality.
2.d.1	---	2.a.3	6 th week	4- Confidentiality disclosure.
2.d.2	2.c.3	2.a.4	7 th , 8 th week	5-Ethical issues for biochemical research.

2.d.5	---	2.a.5	9 th , 10 th week	6- Doctor/Patient relationship.
2.d.2	2.c.4	2.a.6	11 th , 12 th week	7-Medical negligence and Malpractice.
2.d.1	---	2.a.7	13 th , 14 th week	8-Euthanasia.
2.d.1	---	2.a.8	15 th week	9-Ethical dilemma.

Course coordinator:

Head of Department: Prof. Shereen Elkholy

Date:

September

2020



Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: الباثولوجيا فيما يخص الطب

الشرعي.....

Code: FORE&TOXI 605.....

Academic Year (2021- 2022)

• Department offering the course:Forensic medicine and Clinical Toxicology

• Major or minor elements of the program:minor

• Academic level: First part or second part of the programFirst part.....of Master degree

• Date of specification approval:

- Department council: date: ٨ / 9 /2021.

- Faculty council date: ٢١ / 9 /2020.

A) Basic Information:

• Allocated marks:50..... marks.

• Course duration:15..... weeks of teaching.

• Credit hours:1..... hours

• Teaching hours:1..... hours / week.

Method of teaching	Teaching Hours / week	Total hours
1- Lectures/ Seminars/ Case based learning/ Directed self-learning	.5 hr / week	9
2- Practical	1 hr\week	12
Total	1.5	21

B) Professional Information:

1- Overall Aim of the Course:

- To familiarize students with fundamental bases of disease processes.
- To provide scientific **knowledge** of pathological changes associated with different diseases and toxins.
- 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.
- To provide **practical and clinical skills** necessary for proper dealing with pathological changes associated with different diseases and toxins .
- To provide the students with **professional education and communication skills** essential for establishing & maintaining good doctor/ patient relationship, appropriate attitudes with colleagues and para-medicals.

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 Identify pathological changes caused by radiation**
- 2.a.3 List pathological changes of sudden death in infant and adult.**
- 2.a.4 Mention the fate & complications of the diseases related to medicolegal cases and outline the general management procedures.**
- 2.a.5. Describe the morphologic (gross & microscopic) changes occurring because of such disease processes in cardiovascular system.**
- 2.a.6 Describe the morphologic (gross & microscopic) changes occurring because of such disease processes in central nervous system.**
- 2.a.7 Describe the morphologic (gross & microscopic) changes occurring because of such disease processes in respiratory system.**
- 2.a.8 Describe the morphologic (gross & microscopic) changes occurring because of such disease processes in gastro intestinal system.**
- 2.a.9 state pathological changes caused by drugs causing tubulointerstitial nephritis.**

- 2.a.10 Explain pathological changes in deaths related to pregnancy .
- 2.a.11 Recognise different types of fracture and its repair .
- 2.a.12 Illustrate pathological changes caused by therapeutic drugs and drug of abuse.

2.b. Practical Skills

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

- 2.b.1. Diagnose different forensic and toxicological conditions depending on pathological finding.
- 2.b.2. Write reports on the different macroscopic and microscopic pathological specimens.
- 2.b.3 . Utilize the obtained pathological information to solve forensic and toxicological problems.

2.c. Intellectual Skills:

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

- 2.c.1. **Interpret** different autopsy findings on pathological basis
- 2.c.2. **Analyze** case scenario of diseases leading to death and their clinical, pathogenesis, morphological, complication aspects
- 2.c.3. Identify pathological changes in different organs

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

2.d.5. *Establish* effective interpersonal relationship to communicate ideas and arguments.

3- Course contents: _____ :

Subject	Lectures (hrs)	%	Practical (hrs)	%	Total (hrs)	% of Total
1-General pathology:	2	22.2	1	16.6	3	20 %
2-cardiovascular system:	1.5	16.7	1	16.7	2.5	16.6 %
3-CNS:	1.5	16.7	1	16.7	2.5	16.6 %
4-Respiratory system:	1	11.1	1	16.7	2	13.4 %
5-Gastrointestinal and urinary system:	1	11.1	1	16.7	2	13.4%
6-female genital system and bones:	1	11.1	.5	8.3	1.5	10 %
7- pathological changes due to injury by therapeutic drugs and drug of abuse	1	11.1	.5	8.3	1.5	10%
TOTAL	9	100	6	100	15	100%

4- Teaching and learning methods:

METHODS USED:

- 21.Modified lectures.
- 22.Seminars.
- 23.Directed self-learning.
- 24.Case based learning
- 25.Practical/clinical classes.

Method	Evidence	ILOs
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Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.12., 2.c.1.----2.c.3 2.d.1.----2.d.4
Case based learning	Case scenarios	2.a.1-----2.a.12., 2.c.1.----2.c.3 2.d.1.----2.d.4
Directed self-learning.	Log book	2.a.1-----2.a.12., 2.c.1.----2.c.3 2.d.1.----2.d.4
Seminars	Log book	2.a.1-----2.a.12., 2.c.1.----2.c.3 2.d.1.----2.d.4
Practical classes	Pathology reports, log book.	2.b.1.----2.b.3

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA:

- 13.Lectures/seminars (at least 50% attendance).
- 14.Practical & clinical (at least 75% attendance).
- 15.Log book (practical reports & students activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.12. 2.c.1.----2.c.3 2.d.1.----2.d.4
Oral examination	Viva card system	2.a.1-----2.a.12. 2.c.1.----2.c.3 2.d.1.----2.d.4
Practical [OSCE]	Practical, clinical & Reports	2.b.1.----2.b.3

5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	-by the end of 5 th week -by the end of 10 th week
2- <i>Final exam</i>	15 th week

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
j- Written	20	40%
k- Practical	20	40%
l- Oral	10	20%
Total	50	100%

5-E) Examination description :

Examination	Description
End semester:	
l- Written	Short assay, select (MCQs), & case study, true or false with explanations. Write reports and comments on specimens Viva cards divided into in two sessions
m- Practical	
n- Oral	
c- Oral	Two sessions (forensic and toxicology)
3- Assignments & other activities	Assignments, projects , log book... etc.

6- List of references:

6.1- Basic materials:

- Department books by staff members :theoretical,museum and histopathology

6.2- Essential books (textbooks):Robbins basic pathology (10th edition) 2017

6.3- Recommended books:

Basic pathology of Kumar,Cortan and Robbins

6.4- Periodicals, Web sites, etc:

- <http://www.pathmax.com>.
- <http://sciencedirect.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: seventh floor
- Department lab.

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة/ : بنها..... كلية / الطب البشرى..... قسم... الطب الشرعى
والسموم الاكلينيكية.....

الباثولوجى	مسمى المقرر
FORE & TOXI 605	كود المقرر

مهارات عامة	مهارات مهنية	مهارات ذهنية	المعارف الرئيسية	أسبوع الدراسة	المحتويات للمقرر
2.d.1 2.d.2 2.d.3 2.d.4	2.b.1	2.c.1 2.c.2 2.c.3	2.a.1 2.a.2 2.a.3 2.a.4	1-5	General Pathology
2.d.1 2.d.2 2.d.3 2.d.4	2.b.2 2.b.3	2.c.1 2.c.2 2.c.3	2.a.5	6,7	C.V.S
2.d.1 2.d.2 2.d.3 2.d.4	2.b.2 2.b.3	2.c.1 2.c.2 2.c.3	2.a.6	8,9	CNS

2.d.1 2.d.2 2.d.3 2.d.4	2.b.2 2.b.3	2.c.1	2.a.7	10	Respiratory system
2.d.1 2.d.2 2.d.3 2.d.4	2.b.2 2.b.3	2.c.1 2.c.2 2.c.3	2.a.8	11	GIT
2.d.1 2.d.2 2.d.3 2.d.4	2.b.2 2.b.3	2.c.1 2.c.2 2.c.3	2.a.9	12	Urinary tract
2.d.1 2.d.2 2.d.3 2.d.4	2.b.2 2.b.3	2.c.1 2.c.2 2.c.3	2.a.10	13	Female genital system
2.d.1 2.d.2 2.d.3 2.d.4	2.c.1 2.c.2 2.c.3	2.c.1 2.c.2 2.c.3	2.a.11	14	bones
2.d.1 2.d.2 2.d.3 2.d.4	-	2.c.1 2.c.2 2.c.3	2.a.12	15	Pathological changes due to Toxicological causes

Course coordinator:

Head of Department: Prof.

Date:

September

2020



Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: الباطنه العامه
Code: FORE and TOXI 606
Academic Year (2020- 2021)

- Department offering the course: internal medicine
- Major or minor elements of the program: minor
- Academic level: First part or second part of the program : first part of master
- Date of specification approval:
 - Department council: date: ٨ / 9 /2020.
 - Faculty council date: ٢١ / 9 /2020.

A) Basic Information:

- Allocated marks: 100 marks.
- Course duration: 15 weeks of teaching.
- Credit hours: 2 hours
- Teaching hours: 3 hours / week.

Method of teaching	Teaching Hours / week	Total hours
1- Lectures/ Seminars/ Case based learning/ Directed self-learning	1h/ week	15
2- Practical / Clinical	2h/ week	30
Total	3h/ week	45

B) Professional Information:

1- Overall Aim of the Course:

- To provide good scientific knowledge about common medical diseases in studied medical branches (cardiovascular-respiratory-gastrointestinal- etc.....)
- To accept clinical skills how to take history of the patient how to examine different systems of the body with stress on data help in diagnosis.

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 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 evaluate the signs and symptoms of different toxicological cases and how to differentiate between them and other medical conditions.
- 2.a.8 causes of sudden cardiac arrest and brain death.
- 2.a.9 demonstrate symptom and sign and drug caused heart failure and how to differentiate between them and respiratory system.
- 2.a.10 differentiate between cardiogenic and non cardiogenic pulmonary edema.
- 2.a.11 discuss types of shock.
- 2.a.12 discuss general approach management of toxic coma.
- 2.a.13 describe epileptical fits and drug causing it.
- 2.a.14 demonstrate different between mercury and lead toxicity.
- 2.a.15 assemble causes of intracranial hemorrhage.

.b. Practical Skills

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

- 2.b.1. Diagnose the toxic coma and differentiate between it and other medical causes of coma.
- 2.b.2. Perform physical examination of different systems successfully.
- 2.b.3. Take a detailed medical history of patients.

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

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

2.b.6 examine patient with cardiovascular diseases and respiratory diseases.

2.b.7 diagnose true epileptical fits.

2.c. Intellectual Skills:

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

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

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

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

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

2.d. General and transferable Skills:

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

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.

3 Course contents: _____ :

Subject	Lectures (hrs)	%	Practical (hrs)	%	Total (hrs)	% of Total
CVS: Symptoms & Sign of C.V diseases. Examinations& Investigations. HEART FAILUR-dysrhythmia	3	20	5	16. 6	8	17.7 %
RESPIRATORY SYSTEM: Symptoms & Sign of Respiratory diseases. Examinations & Investigations. Drug and Toxins induce respiratory failure.	3	20	5	16. 6	8	17.7%

Pulmonary edema.						
ICU -SHOCK -BRAIN DEATH -COMA	3	20	5	16.6	8	17.7%
RENAL FAILURE:	1	6.6	2	6.6	3	6.7%
Hepatic failure	1	6.6	3	10	4	8.9 %
CNS Eplipsy Hemorrhage	2	13.3	5	16.7	7	15.6%
Heavy metal	2	13.3	5	16.7	7	15.6
TOTAL	15	100	30	100	45	100%

4- Teaching and learning methods:

METHODS USED:

1. **Modified lectures.**
2. **Seminars.**
3. **Directed self-learning.**
4. **Case based learning**
5. **Practical and clinical classes.**

Method	Evidence	ILOs
Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.15., 2.c.1.----2.c.4 2.d.1.----2.d.6
Case based learning	Case scenarios	2.a.1-----2.a.15., 2.c.1.----2.c.4 2.d.1.----2.d.6
Directed self-learning.	Log book	2.a.1-----2.a.15., 2.c.1.----2.c.4 2.d.1.----2.d.6
Seminars	Log book	2.a.1-----2.a.15., 2.c.1.----2.c.4

		2.d.1.----2.d.6
Practical and clinical classes	Toxicological reports, log book.	2.b.1.----2.b.7

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA:

1. Lectures/seminars (at least 50% attendance).
2. Practical & clinical (at least 75% attendance).
3. Log book (practical reports & students activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.15., 2.c.1.----2.c.4 2.d.1.----2.d.6
Oral examination	Viva card system	2.a.1-----2.a.15., 2.c.1.----2.c.4 2.d.1.----2.d.6
Practical & clinical examination [OSPE/OSCE]	Practical, clinical & Reports	2.b.1.----2.b.7

5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	By the end of 3 th week By the end of 6 th week BY the end of 10 th week
2- Final exam	By the end of 15 th week

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
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a- Written	50	50
b- Practical & Field training	25	25
c- Oral	25	25
Total	100	100

5-E) Examination description :

Examination	Description
End semester:	
a- Written	Short assay, select (MCQs), & case study, true or false with explanations.
b- Practical	Write reports and comments on specimens
c- Oral	Viva cards divided into in two sessions
c- Oral	Two sessions (forensic and toxicology)
3- Assignments & other activities	Round assignments, projects , log book... etc.

6- List of references:

6.1- Basic materials:

- Department books by staff members

6.2- Essential books (textbooks):

Davidson's Principles and Practice of Medicine, 22st Edition, By Nicki R. College, BSc, FRCP(Ed), Brian R. Walker, BSc, MD, FRCP(Ed), 2018

Kumar and Clark's Clinical Medicine, by Kumar & Clark - 9th Edition, 2016.

6.3- Recommended books:

Oxford Textbook of Medicine, by David A. Warrell (Author), Timothy M. Cox (Author), John D. Firth (Author) -Edition: 5th, 2010.

6.4- Periodicals, Web sites, etc:

- <http://www.pubmed.com>.

- <http://sciencedirect.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: SIXTH floor
- Department lab.

مصنوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة/بنها. كلية / طب بشري قسم/ الطب الشرعي والسموم الاكلينيكيه

الباطنه العامه	مسمى المقرر
٦٠٦	كود المقرر

المحتويات للمقرر	أسبوع الدراسة	المعارف الرئيسة	مهارات ذهنية	مهارات مهنية	مهارات عامة
Cvs system		2.a.3	2.c.1 2.c.3 2.c.4	2.b.2	2.d.1
		2.a.6		2.b.3	2.d.2
		2.a.7		2.b.4	2.d.3
		2.a.8		2.b.6	2.d.4
		2.a.9			
Respiratory system		2.a.7	2.c.1 2.c.2	2.b.2	2.d.1
		2.a.9		2.b.3	2.d.2
		2.a.10		2.b.4	2.d.3
				2.b.6	2.d.4
ICU		2.a.1	2.c.2	2.b.1	2.d.1
		2.a.8			2.d.2
		2.a.11			2.d.3
		2.a.12			
Renal system		2.a.2	2.c.2	2.b.2 2.b.3 2.b.4	2.d.1
					2.d.2
					2.d.3
Hepatic system		2.a.2	2.c.2	2.b.2 2.b.3 2.b.4	2.d.1
					2.d.2
					2.d.3

2.d.5	2.b.2 2.b.7	2.c.2	2.a.1 2.a.3 2.a.13 2.a.15		CNS system
2.d.1 2.d.2 2.d.3 2.d.4		2.c.3	2.a.14		Heavy metals

Course coordinator:

Head of Department: Prof.

Date: September 2020





Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: Medical Statistics
Code: FORE & TOXI 607
Academic Year (2020- 2021)

- Department offering the course: Community Medicine department.
- Major or minor elements of the program: Minor.
- Academic level: First part the program
- Date of specification approval: department council No. (325)
 - Department council: date: 6 / 9 /2020.
 - Faculty council date: ٢١ / 9 /2020.Revised & approved By Prof. Raneyah Hamdy.

A) Basic Information:

- Allocated marks: 50 marks.
- Course duration: 15 weeks of teaching.
- Credit hours: 1 hour
- Teaching hours: 1 hour / week.

Method of teaching	Teaching Hours / week	Total hours
Lectures/ Seminars/ Case based learning/ Directed self-learning	1/ week	15
2- Practical / Clinical	_____	_____
Total	1/week	15

B) Professional Information:

1- Overall Aim of the Course

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

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

- 2.a.23. Memorize forensic and clinical toxicology programs based on local needs.
- 2.a.24. 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.

2.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 the analysis of data.
- 2.b.3 Select appropriate methods for evaluating the health problem.

2.c. General and Transferable Skills:

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

- 2.c.1 Communicate clearly, sensitively, and effectively with patients and their relatives,

And colleagues from a variety of health and social care professions.

2.c.2 Conduct proper counseling practices to provide appropriate basic research methods.

2.c.3 Respect the role of others, superiors, colleagues and all members of the health profession.

2.c.4 Conduct different types of surveys.

2.c.5 Apply the principles of statistical methods for collection, presentation & analysis of all types of data.

3- Course contents: _____ :

Subject	Lectures (hrs)	% of Total
1-Types of data	1	7%
2-Collection of data: <ul style="list-style-type: none">▪ Sampling▪ Screening▪ Epidemiological studies	3	20%
3-Summarization of data: <ul style="list-style-type: none">▪ Measures of central tendencyMeasures of dispersion	2	14%
4-Presentation of data: <ul style="list-style-type: none">▪ Tabular presentation▪ Graphic presentationMathematical presentation	2	13%
5-Normal distribution curve	1	6%
6-Hypothesis testing	1	6%
7-Analysis of data & tests of significance	2	14%
8-Vital rates	2	14%
9-Ethics of research	1	6%
TOTAL	15	100%

4- Teaching and learning methods:

METHODS USED:

6. Modified lectures.
7. Seminars.
8. Directed self-learning.
9. Case based learning
10. Practical/clinical classes.

Method	Evidence	ILOs
Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.2., 2.b.1 ---- 2.b.3 2.c.1.----2.c.5
Case based learning	Case scenarios	2.a.1-----2.a.2., 2.b.1 ---- 2.b.3 2.c.1.----2.c.5
Directed self-learning.	Log book	2.a.1-----2.a.2., 2.b.1 ---- 2.b.3 2.c.1.----2.c.5
Seminars	Log book	2.a.1-----2.a.2., 2.b.1 ---- 2.b.3 2.c.1.----2.c.5

5- Students Assessment methods:**5-A) ATTENDANCE CRITERIA:**

4. Lectures/seminars (at least 50% attendance).
5. Practical & clinical (at least 75% attendance).
6. Log book (practical reports & students activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination To assess knowledge acquisition, including problem solving	2.a.1-----2.a.2., 2.b.1 ---- 2.b.3 2.c.1.----2.c.5

Oral examination	Viva card system To assess understanding and stability of knowledge given, attitude and presentation.	2.a.1-----2.a.2., 2.b.1 ---- 2.b.3 2.c.1.----2.c.5
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5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	At 5 th / 7 th weeks
2- <i>Final exam</i> Written exam Oral exam	After 15 weeks of registration of the degree. After the written exam.

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
Written	30	60%
Oral	20	40%
Total	50	100%

5-E) Examination description :

Examination	Description
Written	<ul style="list-style-type: none"> • A two-hour written paper composed of short essay-type questions and Case study.
Oral	<ul style="list-style-type: none"> • One oral examination station with 2 staff members (10-15 minutes: 4-5 questions).

6- List of references:

6.1- Basic materials:

- Handouts of the staff member in the department

6.2- Essential books (textbooks):

- Khalil IF, 1999: Biostatistics, Cairo University

6.3- Recommended books:

- 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:

Facilities used for teaching this course include:

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. Abd Elmoniem A. Younis Dawah

Head of Department: Prof Dr Raneyah Hamdy

Date: 6-9 2020

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

كلية / الطب البشرى قسم الطب الشرعى و السموم

جامعة/ بنها

Medical Statistics	مسمى المقرر			
FORE & TOXI 607	كود المقرر			
مهارات عامة	مهارات ذهنية	المعارف الرئيسية	أسبوع الدراسة	المحتويات للمقرر
2.c.2		2.a.2	1th	1-Types of data

2.c.1 2.c.2 2.c.4 2.c.5	2.b.1	2.a.2	2,3,4 th	2-Collection of data: <ul style="list-style-type: none"> ▪ Sampling ▪ Screening ▪ Epidemiological studies
2.c.2	2.b.2	2.a.2	5,6 th	3-Summarization of data: <ul style="list-style-type: none"> ▪ Measures of central tendency Measures of dispersion
2.c.3 2.c.4		2.a.2	7,8 th	4-Presentation of data: <ul style="list-style-type: none"> ▪ Tabular presentation ▪ Graphic presentation Mathematical presentation
2.c.3 2.c.4		2.a.2	9 th	5-Normal distribution curve
2.c.1 2.c.5		2.a.2	10 th	6-Hypothesis testing
2.c.3	2.b.2	2.a.2	11,12 th	7-Analysis of data & tests of significance
2.c.2	2.b.3	2.a.1 2.a.2	13 th	8-Vital rates
2.c.5	2.b.2 2.b.3	2.a.2	14 th	9-Ethics of research

Course coordinator: Prof Dr. Abd Elmoniem A. Younis Dawah

Head of Department: Prof.Dr Raneyah Hamdy

Date: 6 September

2020



Benha University

Faculty of Medicine

Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: الطب الشرعى
Code: FORE& TOXI 608
Academic Year (2020– 2021)

- **Department offering the course:** ...Forensic medicine & clinical toxicology
- **Major or minor elements of the program:** Major
- **Academic level:** second part of the program
- **Date of specification approval:**
 - Department council: date: ٨ / 9 /2020.
 - Faculty council date: ٢١ / 9 /2020.

A) Basic Information:

- **Allocated marks:** ...750..... marks.
- **Course duration:** 45..... weeks of teaching.
- **Credit hours:**15..... hours
- **Teaching hours:**20..... hours / week.

Method of teaching	Teaching Hours / week	Total hours
1- Lectures/ Seminars/ Case based learning/ Directed self-learning	10/ week	30
2- Practical / Clinical	10/week	30
Total		60

B) Professional Information:

1- Overall Aim of the Course:

- To provide scientific **knowledge** of all aspects of forensic medicine

- To provide **practical and clinical skills** necessary for proper dealing with different situations related to forensic medicine and taking proper decision
 - To provide the students with **professional education and communication skills** essential for establishing & maintaining good doctor/ patient relationship, appropriate attitudes with colleagues and para-medicals.
- Ò Enable the student to deal with mass disasters & How to identify any un known body.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

- 2.a.25. Classify** different methods of identification
- 2.a.26. Write** medico-legal information from hair, scar, and tattoo mark(s)
- 2.a.27. Identify** age, sex & race from skull and long bone
- 2.a.28. Define death & Differentiate** between somatic and molecular death
- 2.a.29. Explain** How to estimate 'time since death' from the immediate, early and late changes after death.
- 2.a.30. Differentiate** between postmortem staining and bruising, hypostasis and congestion, rigor mortis and cadaveric spasm, rigor mortis and conditions simulating rigor mortis, etc.
- 2.a.31. Discuss** mechanism of death by compression of the neck
- 2.a.32. Classify** Types, cause of death, autopsy findings and circumstances of strangulation, Mugging, garroting, manual strangulation, etc.
- 2.a.33. Define** Infanticide and the related law
- 2.a.34. Classify** Different classification of burns, Rule of nine, Causes of death in burn

- 2.a.35. *Identify* scalds and their medicolegal aspects.
- 2.a.36. *Discuss* Mechanism of death from electrocution.
- 2.a.37. *Explain* mechanism of death from abortion
- 2.a.38. *Differentiate between* Characters of wounds produced by rifled and smooth-bore firearms.
- 2.a.39. *Write* autopsy findings in firearm injuries.
- 2.a.40. *Illustrate* medicolegal aspects of coup and contrecoup injuries
- 2.a.41. *Differentiate between* Concussion and compression
- 2.a.42. *Demonstrate* heart injuries caused by blunt trauma
- 2.a.43. *Discuss* Pattern of injuries to the pedestrians, motor cyclists and pedal cyclists.
- 2.a.44. *Write* Medico-Legal Aspects of Permanent infirmity
- 2.a.45. *List* evidences of virginity & types of hymens
- 2.a.46. *Identify* physical evidences in rape
- 2.a.47. *List* causes of impotence and sterility in males
- 2.a.48. *Explain* mechanism of death from Shaken Baby Syndrome.
- 2.a.49. *List types of abortion*

2.b. Practical Skills

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

- 2.b.1. *Write* an autopsy report .
- 2.b.2. *Write* a wound report.
- 2.b.3. *identify* jars for forensic specimen
- 2.b.4. *Perform* examination of cadavers
- 2.b.5. . *Write* an x ray report
- 2.b.6 - Child Abuse:. Examination of victim & accused in a case of rape
- 2.b.7. – *identify* firearm specimens

2.c. Intellectual Skills:

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

- 2.c.1. *Analyze* different case scenarios of clinical forensic medicine, and forensic pathology as well as the different crime scene evidences investigations, to reach to the cause, mechanism, mode and manner of death.
- 2.c.2. *classify* different types of suffocation deaths
- 2.c.3. *Correlate* between different forensic conditions and its related physiological, pharmacological and biochemical basis.
- 2.c.4. *Assess* risks during practicing forensic medicine .
- 2.c.5. *Design* solutions for medical problems met during practicing forensic medicine even with absence of some administrative tools.

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. *Present* information clearly in written, electronic and oral forms.
- 2.d.5. *Establish* effective interpersonal relationship to communicate ideas and arguments.

3- Course contents:

Subject	Lectures (hrs)	%	Practical (hrs)	%	Total (hrs)	% of Total
1- Identification::	2	10	3	10	5	5 %

2- II. Deaths	1	5	1	5	2	5 %
3- - Asphyxial Deaths:	3	15	2	10	5	10 %
4- Infanticide:	2	5	1	10	3	5
5- Thermal Deaths::	1	5	1	5	2	5 %
6- - Death by Electrocutation::	1	5	1	5	2	5 %
7- Deaths associated with Pregnancy, delivery and Abortion.	2	5	1	5	3	5
8- Injuries	3	5	3	10	6	5
9- Firearm injuries and Injuries by explosions:	3	12	4	10	7	10
10- Regional Injuries:	2	10	4	10	6	20
11- Chest and abdominal injuries	1	2	1	5	2	4
12- Transportation Injuries:	2	2			2	2
13- Medico-Legal Aspects of Permanent infirmity	1	2			1	2
14- Virginity, Pregnancy and Delivery	2	5	5	5	7	5
15- Abortion.	2	5	2	5	4	5
16- Sexual assault	1	2			1	2
17- - Child Abuse:	1	5	1	5	2	5
TOTAL	30	100	30	100	60	100%

4- Teaching and learning methods:

METHODS USED:

- 11.Modified lectures.
- 12.Seminars.
- 13.Directed self-learning.
- 14.Case based learning
- 15.Practical/clinical classes.

Method	Evidence	ILOs
--------	----------	------

Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.25., 2.c.1.----2.c.5 2.d.1.----2.d.5
Case based learning	Case scenarios	2.a.1-----2.a.25., 2.c.1.----2.c.6 2.d.1.----2.d.5
Directed self-learning.	Log book	2.a.1-----2.a.25., 2.c.1.----2.c.6 2.d.1.----2.d.5
Seminars	Log book	2.a.1-----2.a.25., 2.c.1.----2.c.6 2.d.1.----2.d.5
Practical classes	Wound reports, X-ray reports & log book.	2.b.1.----2.b.7

5- Students Assessment methods:

5-A) ATTENDANCE CRITERIA:

7. Lectures/seminars (at least 50% attendance).
8. Practical & clinical (at least 75% attendance).
9. Log book (practical reports & students activity).

5-B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> • MCQs • Case study • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.25., 2.c.1.----2.c.6 2.d.1.----2.d.5
Oral examination	Viva card system	2.a.1-----2.a.25., 2.c.1.----2.c.6 2.d.1.----2.d.5
Practical & clinical examination [OSPE/OSCE]	Practical, clinical & Reports	2.b.1.----2.b.5

5-C) TIME SCHEDULE:

Exam	Week
1- Formative Assessments	By the end of the 1 st 22 weeks & another one after the 2 nd 22w
2- Final exam	At the end of 45w

FORMATIVE ASSESSMENT:

- Student knows his marks after the Formative exams.

5-D) Weighting System:

Examination	Marks allocated	% of Total Marks
c- Written	300	
d- Practical & Field training	250	
c- Oral	200	
Total	750	

5-E) Examination description :

Examination	Description
End semester: d- Written e- Practical f- Oral	Short assay, select (MCQs), & case study, true or false with explanations. Write reports and comments on specimens Viva cards divided into in two sessions
c- Oral	Two sessions (forensic and toxicology)
3- Assignments & other activities	Round assignments, projects , log book... etc.

6- List of references:

6.1- Basic materials:

- Department books by staff members

6.2- Essential books (textbooks):

- Goldfrank's Manual of Toxicologic Emergencies: Hoffman, R.S.; Nelson, L.S.; Howland, M.A. et al. (eds.), McGraw-Hill Companies, New York, 9th ed., (2019).
- Poisoning & Drug Overdose. By: **Olson, K.R.** (ed.), Lange medical books/McGraw-Hill, New York, Chicago, Toronto, (2020).

6.3- Recommended books:

- Goldfrank's Toxicologic Emergencies. By: Flomenbaum, N.E.; Goldfrank, L.R.; Hoffman, R.S., et al. (eds.), McGraw-Hill, New York, 8th ed., (2015).
- Clinical Toxicology. By: *Ford, M.D.; Delaney, K.A.; Ling, L.J. et al.* (eds.), W.B. Saunders Co., Philadelphia, 1st ed., (2015).

6.4- Periodicals, Web sites, etc:

- <http://www.pubmed.com>.
- <http://sciencedirect.com>.

7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: SIXTH floor
- Department lab.

مصفوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة/ :...بناها..... كلية /الطب البشري..... قسم.....الطب

الشرعي والسموم الاكلينيكية.....

الطب الشرعي	مسمى المقرر
FORE& TOXI 608	كود المقرر

المحتويات للمقرر	أسبوع الدراسة	المعارف الرئيسية	مهارات ذهنية	مهارات مهنية	مهارات عامة
1- Identification::		2.a.1 2.a.2. 2.a.3.	2.c.1.	2.b.3.	2.d.1.

2.d.2.	2.b.1. 2.b.4.		2.a.4 2.a.5. 2.a.6.		2-. Deaths
2.d.3.	2.b.3.	2.c.2.	2.a.7 2.a.8.		3- - Asphyxial Deaths:
	2.b.3.		2.a.9.		4- Infanticide:
	2.b.3.		2.a.10 2.a.11.		5- Thermal Deaths::
	2.b.3.		2.a.12		6- - Death by Electrocution::
2.d.5.	2.b.3.		2.a.13.		7- Deaths associated with Pregnancy, delivery and Abortion.
	2.b.2.		2.a.14		8- Injuries
2.d.4.	2.b.3. 2.b.7.		2.a.15		9- Firearm injuries and Injuries by explosions:
	2.b.3.		2.a.16. 2.a.17.		10- Regional Injuries:
	2.b.3.		2.a.18.		11- Chest and abdominal injuries
			2.a.19.		12- Transportation Injuries:
			2.a.20.		13- Medico- Legal Aspects of Permanent infirmity
			2.a.21.		14- Virginity, Pregnancy and Delivery
			2.a.21.		15- Abortion.
	2.b.6.		2.a.25.		16- Sexual assault
			2.a.24.		17- - Child Abuse:

Course coordinator:

Head of Department: Prof. Dr shereen el kholy

Date: September

2020





Benha University
 Faculty of Medicine
 Department of Forensic Medicine and Clinical Toxicology

Course Specifications

Course title: Clinical toxicology

Code: FORE & TOXI 609

Academic Year (2020– 2021)

- **Department offering the course:** Forensic Medicine & Clinical Toxicology Department
- **Major or minor elements of the program:** Major
- **Academic level:** second part of Master
- **Date of specification approval:**
 - Department council: date: 18 / 9 /2020.
 - Faculty council date: 21 / 9 /2020.

A) Basic Information:

- **Allocated marks:** 750 marks.
- **Course duration:** 45 weeks of teaching.
- **Credit hours:** 15 hours
- **Teaching hours:** 20 hours / week.

Method of teaching	Teaching Hours / week	Total hours
1- Lectures/ Seminars/ Case based learning/ Directed self-learning	12/ week	540
2- Practical / Clinical	8/ week	360
Total	20/ week	900

B) Professional Information:

1- Overall Aim of the Course:

- To provide the students with scientific knowledge that enables them to deal with common medico-legal conditions (either in living or dead cases).



- To provide the students with scientific knowledge that enables them to deal with common toxic cases, either acute or chronic poisoning and drug dependence.
- To provide practical and clinical skills necessary for proper dealing with the common toxic cases, that will face him during practicing medicine.
- To provide the students with ethical, professional education and communication skills essential for establishing & maintaining good doctor/ patient relationship, appropriate attitudes with colleagues and para-medicals.

2- Intended Learning Outcomes (ILOs):

2.a. Knowledge and understanding:

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

- 2.a.1. Illustrate** mechanism, clinical picture and management of common therapeutic drugs.
- 2.a.2. Discuss** mechanism, clinical picture and management of the studied household poisons especially (corrosives, food poisoning, pesticides, hydrocarbons and other miscellaneous poisons).
- 2.a.3. Enumerate** the circumstances of intoxication, management of poisoned patient with environmental toxins (heavy metals, gas poisons, smoke inhalation, etc...).
- 2.a.4. Discuss** mechanism, clinical picture and management of the studied household poisons especially (corrosives, food poisoning, pesticides, hydrocarbons, toxic alcohols and other miscellaneous poisons).
- 2.a.5. List** clinical picture and management of animal toxins (snakes, scorpions, etc....).
- 2.a.6. Discuss** types of drugs of dependence, mechanism of tolerance, mechanism of actions, clinical picture and management of studied cases of dependence (opioids, cocaine, alcohols, hallucinogens ...).

2.b. Practical Skills

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

- 2.b.1. Write** a primary toxicological report.
- 2.b.2. identify** toxicological specimens (plant specimens, etc...)
- 2.b.3. Diagnose** some common studied intoxicated cases (therapeutics & household intoxicated cases).



2.c. Intellectual Skills:

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

2.c.1. Interpret case scenario of clinical toxicology cases to put a proper plan for their management.

2.c.2. Differentiate between similar cases of intoxication to formulate precise and accurate differential diagnosis of intoxicated cases.

2.c.3 Interpret common investigative and diagnostic tools including: imaging, electrocardiograms, laboratory assays, pathologic studies, and functional assessment tests.

2.c.4 Combine all obtained results either from history taking, medical examination and investigations in order to diagnose the medical problems.

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. Present information clearly in written, electronic and oral forms.

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



3- Course content :

Subject	Lectures (hrs)	%	Practical (hrs)	%	Total (hrs)	% of Total
1- Analgesics and Anti-inflammatory Medications:	30	5.5	24	6.6	54	6 %
2- Foods, Dietary and Nutritional Agents:	45	8.3	24	6.6	69	7.6 %
3- Pharmaceuticals:	50	9.3	48	13.2	74	8.2 %
Cardiopulmonary Medications:	45	8.3	24	6.6	69	7.6 %
Psychotropic Medications:	45	8.3	24	6.6	54	6 %
6- Substances of Abuse:	60	11.1	48	13.2	108	12% 7-
Heavy metals	60	11.1	24	6.6	74	8.2% 8-
Household products	50	9.3	48	13.2	69	7.6 % 9-
Pesticides	50	9.3	24	6.6	74	8.2 10-
Occupational and Environmental Toxins:	45	8.3	48	13.2	93	10.3%
TOTAL	540	100	360	100	900	100%

4- Teaching and learning methods:

METHODS USED:

1. Modified lectures.
2. Seminars.
3. Directed self-learning.
4. Case based learning
5. Practical/clinical classes.

Method	Evidence	ILOs
	122	



Modified lectures	CDs of lectures including (video films, brainstorming, problem solving, etc...)	2.a.1-----2.a.6., 2.c.1-----2.c.4 2.d.1-----2.d.4
Case based learning	Case scenarios	2.a.1-----2.a.6., 2.c.1-----2.c.4 2.d.1-----2.d.4
Directed self-learning.	Log book	2.a.1-----2.a.6., 2.c.1-----2.c.4 2.d.1-----2.d.4
Seminars	Log book	2.a.1-----2.a.6., 2.c.1-----2.c.4 2.d.1-----2.d.4
Practical classes	Toxicological reports, log book.	2.b.1-----2.b.3

5- Students Assessment methods:

A) ATTENDANCE CRITERIA:

1. Lectures/seminars (at least 50% attendance).
2. Practical & clinical (at least 75% attendance).
3. Log book (practical reports & students' activity).



B) Assessment TOOLS:

Tool	Evidence	Purpose (ILOs)
Written examination: <ul style="list-style-type: none"> •• MCAcqse ss tudy • Short essay • True or false with explanation 	Attached module of examination	2.a.1-----2.a.6., 2.c.1.----2.c.4 2.d.1.----2.d.4
Oral examination	Viva card system	2.a.1-----2.a.6., 2.c.1.----2.c.4 2.d.1.----2.d.4
Practical & clinical examination [OSPE/OSCE]	Practical, clinical & Reports	2.b.1.----2.b.3

C) TIME SCHEDULE:

Exam	Week 1-
Formative Assessments	15 th week/ 35 th week 2-
Final exam	46 th week

➤ **FORMATIVE ASSESSMENT:**

- Student knows his marks after the Formative exams.

D) Weighting System:

Examination	Marks allocated	% of Total Marks
a- Written	300	40
b- Practical & Field training	250	33
c- Oral		



	200	27
Total	750	100

E) **Examination description :**

Examination	Description
<i>End semester:</i>	
a- Written	Short assay, select (MCQs), & case study, true or false with explanations.
b- Practical	Write reports and comments on specimens
	Viva cards divided into in two sessions
c- Oral	Two sessions (forensic and toxicology)
<i>3- Assignments & other activities</i>	Round assignments, projects, log book... etc.

6- List of references:

6.1- Basic materials:

- Department books by staff members

6.2- Essential books (textbooks):

1. *Goldfrank's Toxicologic Emergencies (2018): 11th edition, McGraw-Hill, New York, Flomenbaum, N.E.; Goldfrank, L.R.; Hoffman, R.S., et al. (eds.).*
2. *Dart's Medical Toxicology (2003): 3rd Edition. Lippincott Williams and Wilkins, Richard C. Dart, M.D. et al., Eds.*
3. *Poisoning & Drug Overdose (2021): Olson, K.R. (ed.) Lange medical books/McGraw-Hill, New York, Chicago, Toronto, 7th ed.*

6.3- Recommended books:

- *Goldfrank's Toxicologic Emergencies. By: Flomenbaum, N.E.; Goldfrank, L.R.; Hoffman, R.S., et al. (eds.), McGraw-Hill, New York, 11th ed., (2018).*

6.4- Periodicals, Web sites, etc:

- <http://www.pubmed.com>.
- <http://sciencedirect.com>.



7- Facilities required for teaching and learning:

Facilities used for teaching this course include:

- Faculty lecture hall
- Department lectures halls: two
- Museum hall: SIXTH floor
- Department lab.

مصنوفة المعارف والمهارات المستهدفة من المقرر الدراسي

جامعة/ بنها كلية / الطب البشري قسم: الطب الشرعي والسموم الكلينيكية

المحتويات للمقرر		أسبوع الدراسة		المعارف الرئيسية		مهارات مهنية عامة	
المسمى المقرر		السوم الكلينيكية		معارف الرئيسة		مهارات مهنية عامة	
كود المقرر		FORE & TOXI 609		معارف الرئيسة		مهارات مهنية عامة	
Analgescics and Anti-inflammatory Medications:		1st / 2nd / 3rd		2.a.1		2.d.1-2.d.4	
Foods, Dietary and Nutritional Agents:		4th/ 5th/ 6th/ 7th		2.a.2		2.d.1-2.d.4	
Pharmaceuticals:		8th/ 9th/ 10th / 11th / 12th		2.a.1		2.d.1-2.d.4	
Cardiopulmonary Medications:		16th / 17th / 18th / 19th		2.a.1		2.d.1-2.d.4	
Psychotropic Medications:		20th 21th/ 22th/ 23th / 24th		2.a.1		2.d.1-2.d.4	
Substances of Abuse:		25th/ 26th/ 27/ 28th/ 29th/ 30th		2.a.6		2.d.1-2.d.4	
Heavy metals		31/ 32/ 33th		2.a.3		2.d.1-2.d.4	
Household products		34/ 35/ 36th		2.a.4		2.d.1-2.d.4	
- Pesticides		37/ 38/ 39th		2.a.4		2.d.1-2.d.4	
Occupational and Environmental Toxins:		43/ 44/ 45th		2.a.5		2.d.1-2.d.4	

Course coordinator: Prof. Abdelmonaim Goda



Dr. Yasmina badr

Head of Department: Prof. Sherin El- kholy

Date: September 2022