

Kafr El-Sheikh University

Faculty of Medicine

**Department of Forensic Medicine &
Clinical Toxicology**

Course Specifications

**Forensic Medicine & Clinical Toxicology
Fourth Year**

Forensic Medicine & Clinical Toxicology 4th year Course specifications
University: Kafr El-Sheikh Faculty of Medicine
Department: Forensic Medicine & Clinical Toxicology

-Administrative Information

1. Course title: Forensic Medicine and Clinical Toxicology
2. Code: -----
3. Department offering the course: Forensic Medicine & Clinical Toxicology
Department
4. Program (s) on which this course is given: M.B.B.Ch
5. Departments offering the program: Forensic Medicine & Clinical Toxicology
Department
6. Academic year/Level: 2016-2017/Level: Fourth year of M.B.B.Ch
7. Semester in which the course is given: 1 academic year from
September through June.
8. Date of approval by department/faculty council: -----
The Board of Department
The Internal Quality Assurance & Accreditation Council
of the Faculty of Medicine, KFS University on:
 - Taught hours (weeks+ weeks):
 - Lectures: 3hrs/week
 - Tutorial & practical : (64)/8 weeks

2- Overall Course Aims

- Provide basic background of different medico-legal aspects of living and dead individuals.
- Provide ability to diagnose and treat common intoxicated patients and provide 1st aid and general lines of treatment.
- Provide the ability to diagnose deaths from poison.

3- Intended learning outcomes (ILOs):

A-knowledge and understanding: At the end of this course the student will be able to:

- a1- Recognize different medico-legal aspects of living and dead individuals regarding personal identification, diagnosis of death and brain death,

causes and manner of death, wounds and patterns in different areas and their complications.

- a2-** Explain medico legal (ML) aspects of different cases of sexual offences, delivery and abortion.
- a3-** Discuss different patterns of wound in child abuse and different types of violent asphyxia and their medico legal importance.
- a4-** Explain different types of physical injuries and its medico legal importance.
- a5-** Identify the principles of early clinical manifestations and diagnosis of acute common toxic substances and drugs of abuse.
- a6-** Describe the principles of management of common and life threatening illnesses associated with common toxic substances and drugs of abuse.
- a7-** Explain initial appropriate first aid treatment and antidotal measure for most drugs and toxic substances in our society.

b- Intellectual skills

At the end of this course the student will be able to:

- b1-** Interpret case scenario of clinical forensic medicine and recognize their medico-legal aspects.
- b2-** Interpret situations of uncertainty in medical practice by cooperating with other medical colleagues.
- b3-** Interpret the medico-legal aspects of different problems of malpractice and role of physicians and/or surgeons to save the rights of the patient assaulted.
- b4-** Explain clinical data with interpretation of the biochemical laboratory findings of some metabolic disorders associated with common toxic substances and drugs of abuse.
- b5-** Interpret and analyze clinical findings which is necessary for recognizing, defining and prioritizing management plans for common toxic substances and drugs of abuse.
- b6-** Express systemic thinking and personal judgment in solving of medico-legal problems.
- b7-** Integrate the results of history, physical and laboratory test findings into a meaningful diagnostic formulation associated with common toxic substances and drugs of abuse.

c- Professional & practical skills

At the end of this course the student will be able to:

- c1-** Examine different wounds and injuries and write a proper primary wound report.
- c2-** Estimate death by different clinical and investigatory methods.
- c3-** Estimate time of death through assessment of postmortem changes and interval.
- c4-** Classify different causes, mechanisms and manners of death.

c5- Evaluate the identity of living and dead individuals and write a proper death certificate.

c6- Analyze different biological samples (semen and hair) and toxicological screen.

c7- Apply and document a complete or focused medical history in the emergency settings. .

c8- Construct patient's symptoms and physical signs in diagnostic significances with respect to toxic cases..

C9- Formulate a management plan for acute emergencies associated with common toxic substances and drugs of abuse.

d- General and transferable skills, communication skills and professional attitude

At the end of this course the student will be able to:

d1- Understand and respect the different cultural believes and values in the community they serve.

d2- Communicate clearly, sensitively and effectively with patients and the relatives, colleagues and also with his staff.

d3- Respect all interactions with patients, families, colleagues and others with whom the physician must interact in their professional life.

d4- Consider the resources of biomedical information including the available electronic facilities to update his/her knowledge and to manage and manipulate information.

d5- Give accurate summaries of the patient's toxic manifestations and present information clearly in written, electronic and oral forms.

d6- Work collaboratively in a team with other colleagues to maximize benefits.

d7- Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards.

4-Topics (Contents of the course)

Topic	No. of hrs.			
	Lectures	Practical	Clinical	Total
1- Identification	6	4		c
2- Injuries	20	14		36

Topic	No. of hrs.			
	Lectures	Practical	Clinical	Total
3- Thanatology	8	8		16
4-Medicolegal approach to delivery, pregnancy, abortion and sexual assault	4	4		8
5-General toxicology	6	4		12
6-Special toxicology	30	10		48
7-Drug dependence	2			2
8- MLR		2		2
9- Death certificate		2		2
10- semen examination		2		2
11- Hair& Fiber examination		2		2
12- student activities		4		4
13- Revision	2	4		6
Total	80	64	12	156

5-Teaching and learning methods

-Teaching methods

5.1- Lectures.

5.2- Small group discussions (using role play, models, demonstrations (slides and photographs- museum specimens and Video films, case study).

5.3- Self learning and E-learning.

5.4- Student revised group activities.

5.5- Problem based learning.

5.6- tutorials.

5.7- office hours.

- Teaching plan

Item	Time schedule	Teaching hours
Lectures	6 times /week	80
Practical	6 times /week	64
Clinical	Through the course	12
Total	156	

a) Methods used

1. Periodical assessments in the form of quizzes to assess a1-a9, b1-b9 (except b3).

2. Mid-year exam to assess (a1-a9), (b1-b9 except b3).

3. Final written exam to assess (a1-a9), (b1-b9 except b3).
4. Final practical exam to assess (b4, 5, b7), (c1-c11 except c3, 7, 8, 10), (d2, d5, d7).
5. Final oral exam to assess (a1-a9) and (b1-b9 except b3)
6. Log book.

b) Assessment schedule

Assessment	Date
Assessment 1: Periodical assessments (40) (activity + self-learning + E-learning)	Through round
Assessment 2: Mid-year written exam (30)	At the end of all rounds
Assessment 3: Final oral exam (30)	End year
Assessment 4: Final written exam (100)	End year

Book activity, research and assignments to assess (a9), (d1-d7).

c) Weighing of assessments

Exam	Marks	% of Total
*Log book (field study)		
*Activities & Home assignments		
- Researches		
- Photos for wounds		
- Samples for toxic seeds & firearms cartridges		
*Self-learning		
Mid-year written exam	30	10%
Final examination:		80%
a- <u>Final oral exam</u>	30	10%
b- <u>practical exam</u>	20	20%
c- <u>Final written exam</u>	100	50%
Total	200	100%

d) Attendance criteria:

- Practical attendance

e) Grading System

Examination	Topic	Description	Marks
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Examination	Topic	Description	Marks
Log book Activity	Practical, oral	- Researches - Photos for wounds - Samples for toxic seeds & firearms cartridges	20
Self-learning			
Midyear exam	Written	MCQ + Fill in the space + true or false + give reason	30
Final Examination	Written	MCQ + problem solving + Match+ short essay	100
	Practical exam	-Number of slides 15 - Question on each sample includes the name of sample and comment on each sample. - Writing a death certificate and medico legal report.	20
	Oral exam	2 sessions one for Forensic & the second for Toxicology	30
Total			200

7 List of references

7.1 Course notes

- Forensic medicine and clinical toxicology (Department books)
- Practical book.

7.2 Textbook

- Forensic medicine encyclopedia.
- Dominik Dimayo: Forensic pathology (Practical Aspects of Criminal and Forensic Investigations), 2nd ed, 2001.

- Lewis S. Nelson, Neal A. Lewin, Mary Ann Howland, Robert S. Hoffman, Lewis R. Goldfrank, Neal E. Flomenbaum GoldFrank's Toxicological Emergency, Ninth Edition, 2010.
- Robert S. Hoffman, Lewis S. Nelson, Mary Ann Howland, Neal A. Lewin, Flomenbaum, Lewis R. Goldfrank, GoldFrank's Manual Toxicological Emergency, 2007, McGraw Hill.
- Forensic pathology of B. Knight.
- Forensic Science.
- 5 minutes toxicology 2000 Lippincott Williams & Wilkins;
- Toxicology, Recall 2012.
- Manual of Critical Care, 2012.

7.3 Recommended books

- Department books.

7.4 Periodicals and web sites

www.forensicmed.co.uk/www.medlib.med.utah.edu/webpath/www.dunee.ac.uk/facmedden/bmscwww.e
medicine.com
www.pubmed.com

8-Facilities for learning and teaching resources

- Data show, Computers and lecture rooms

A) Intended learning outcomes of the course

The name of course	Forensic and Clinical Toxicology	University: Kfs /Academy Faculty: Medicine Department: Forensic and Clinical Toxicology
Code of course	04:03	

Topics of the course	Week Study	Knowledge & Understanding	Intellectual Skills	Professional Skills	General and transferable skills, communication skills and professional attitude
1 - Identification	First week	A1	B1	C5	D1
2 – Injuries	second week	A2&6	B1	C1	D1
3-Thanatology	Fourth week	A3	B1	C2,3,4	D1
4- Medico legal approach to delivery,	fifth week	A2	B1		D1

pregnancy and abortion and sexual assault					
5 – General toxicology	First week	A7&9	B2	C7,c8, c9,c10, c11	D1
6 – Special toxicology	third, fifth , seventh week	A8&9	B2	C7,8, c9,cc10, 11	D1
7 – drug dependence	seventh week	A7	B2	c11	D1
8- MLR	Fourth week			C1	D1
9- Death certificate	sixth week			C5,6	D1
10- semen examination	Third week			C6, c11	D2
11- Hair & Fiber examination	Third week			C6	D2
12- Student activity	Through the course				D1,3
13- Revision	Eighth week				
Practical activities, log book, research and assignments		a1-a9	b2	c1-c11	d1 –d7

Course coordinator...
the department

Head of

B. ILOS, of Forensic Medicine and Clinical Toxicology course with the Program ILOS

Program ILOS Course ILOS		knowledge & understanding	Intellectual skills				Professional & practical skills				General , transferable, Professional Attitude and communication skills			
knowledge & understanding	a.1.	a16												
	a.2.	A16												
	a.3.	a16												
	a.4.	a16												
	a.5.	a16												
	a.6.	a16												
	a.7.	a8												
	a.8.	a9												
	a9													
Intellectual skills	b.1.					b13								
	b.2.					b10								
	b.3.					b11								
	b.4.					b13								
	b.5.					b1b								
	b.6.					b3								
	b.7.					b4								
	b.8.					b5								
	b.9.					b7								
Professional & Practical skills	c.1.													
	c.2.													
	c.3.													
	c.4.													
	c.5.													
	c.6.							c1b						
	c.7.							c2						
	c.8.							c3						
	c.9.							c4						
	c.10.							c6						
	c11													
General , transferable, Professional Attitude and communication skills	d.1.										d3			
	d.2.										d8			
	d.3.										d11			
	d.4.										d13			
	d.5.										d14			
	d.6.										d15			
	d.7.										D17			

