



Quality Assurance Unit



**Tanta University
Faculty of Medicine**

Medicine and Surgery Bachelor Program – Credit Point

MSBP -CP

Course/ Module Specifications

[Forensic Medicine]

Semester 3

2023 -2024

Code FORN2101

1- Administrative Information

1. Program title: Medicine and Surgery Bachelor Program – Credit Point MSBP -CP
2. Course/ module title: Forensic Medicine
3. Course/ module code:FORN2101
4. Course/ module coordinator: Assistant Prof. Dr. Manar Maher Ali Fayed
5. Department(s) offering the module/course: Forensic Medicine & Clinical Toxicology
6. Academic year: 2023-2024
7. Level: two, semester 3
8. Date of approval by:
 - Council of the Faculty of Medicine, Tanta University:18-10-2020
9. No. of hours: 122 taught hours + 3hours exam

Credit points	%	Lectures	Practical/clinical	Media	SDL & Activities	Exam	Taught hrs.
5	Contact hrs 50%%		36	13	14	3	66
	Online hrs 50%	34			25		59

2- Professional Information

Academic standards adopted in this course is designed according to NARS 2017

3 – Course/ Module Description

This course provides medical students with basic knowledge of forensic medicine.

4– Overall Course Aim/Objectives

Aim:

This course aims to provide medical student with the basic background of medico-legal situations in clinical practice.

Objectives:

1. Provide medical students with the basic knowledge -as a future general practitioner- about the forensic pathology and forensic medical sciences.
2. Recognize the basic skills of dealing with forensic cases in their future careers.
3. Develop the student skills to write a primary medicolegal report as well as death certificate.
4. Help medical students to use the basic skills and knowledge to predict and define the medicolegal cases.
5. Develop the skills that protect doctors from mal practice and society from crimes and to help law comity in detect and solving the crimes by providing a good primary medical report that describes the wounds and the causative instrument also the wright Death certificate will do.
6. Provide the students with the basic methods of collecting and preserving samples and other physical evidences.

5 - Intended learning outcomes (ILOs)

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

Competency Area I: The graduate as a health care provider

1.8. Apply knowledge of the clinical and biomedical sciences relevant to the clinical problem at hand.

1.8.1 Recognize different medico-legal aspects of living and dead individuals regarding personal identification, diagnosis of death and brain death, causes and manner of death, postmortem changes and differentiation between types of wounds and patterns in different areas and their complications.

1.8.2. Explain medicolegal (ML) aspects of different cases of sexual offences, delivery and abortion.

1.8.3. Explain different types of physical injuries and heat-related disorders and their medicolegal importance.

1.8.4. Recognize different types of violent asphyxia and their medicolegal importance.

1.9. Retrieve, analyse, and evaluate relevant and current data from literature, using information technologies and library resources, in order to help solve a clinical problem based on evidence (EBM).

- 1.9.1. Express systemic thinking and personal judgment in solving of medico-legal problems.
- 1.9.2. Interpret case scenario of clinical forensic medicine and recognize their medico-legal aspects.
- 1.9.3. Interpret situations of uncertainty in medical practice by cooperating with other medical colleagues.

1.17. Contribute to the care of patients and their families at the end of life, including management of symptoms, practical issues of law and certification.

- 1.17.1. Develop the student skills to write a primary medicolegal report as well as death certificate.
- 1.17.2. Estimate time of death through assessment of postmortem changes and interval.
- 1.17.3. Classify different causes, mechanism and manner of death.

Competency Area II: The graduate as a health promoter

2.8. Identify vulnerable individuals that may be suffering from abuse or neglect and take the proper actions to safeguard their welfare.

- 2.8.1. Discuss different patterns of wound in child and elderly abuse and their medicolegal importance.

Competency Area III: The graduate as a professional

3.1. Exhibit appropriate professional behaviors and relationships in all aspects of practice, demonstrating honesty, integrity, commitment, compassion, and respect.

- 3.1.1. Maintain a professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards.
- 3.1.2. Communicate clearly, sensitively and effectively with injured patients and their relatives, colleagues and also with his staff.
- 3.1.3. Respect all interactions with patients, families, colleagues and others with whom the physician must interact in their professional life.
- 3.1.4. Exhibit appropriate professional behaviors and relationships in all Aspects of practice.
- 3.1.5. Develop oneself by gain and apply inter-professional skills.

3.2. Adhere to the professional standards and laws governing the practice, and abide by the national code of ethics issued by the Egyptian Medical Syndicate.

3.2.1. Practice the correct method for writing primary medicolegal report to avoid inaccuracies and errors.

3.2.2. Demonstrate how to diagnose death and how to suspect about the manner of death.

3.2.3. Practice the correct method for writing death certificates.

3.6. Recognize basics of medico-legal aspects of practice, malpractice and avoid common medical errors.

3.6.1. Develop the skills that protect doctors from mal practice and society from crimes and to help law comity in detect and solving the crimes by providing a good primary medical report that describes the wounds and the causative instrument also the right death certificate will do.

Competency Area IV: The graduate as a scholar and scientist

4.8. Demonstrate basic sciences specific practical skills and procedures relevant to future practice, recognizing their scientific basis, and interpret common diagnostic modalities, including: imaging, electrocardiograms, laboratory assays, pathologic studies, and functional assessment tests.

4.8.1. Provide the students with the basic methods of collecting and preserving samples and other physical evidences.

4.8.2 Examine different wounds and injuries and write a proper primary wound report.

4.8.3. Estimate death by different clinical and investigatory methods.

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

4.8.5. Use safely and effectively specimens and instruments

Competency Area V: The graduate as a member of the health team and system

5.2. Respect colleagues and other health care professionals and work cooperatively with them, negotiating overlapping and shared responsibilities and engaging in shared decision-making for effective patient management.

5.2.1. Show good teamwork spirit and working in harmony through shared responsibilities and decision making for outstanding work.

5.3. Implement strategies to promote understanding, manage differences, and resolve conflicts in a manner that supports collaborative work.

- 5.3.1. Work collaboratively in a team with other colleagues to maximize benefits.
- 5.3.2. Understand and respect the different cultural beliefs and values in the community they learn.

5.4. Apply leadership skills to enhance team functioning, the learning environment, and/or the health care delivery system.

- 5.4.1. Practice leadership skills during practical and media sessions.

5.5. Communicate effectively using a written health record, electronic medical record, or other digital technology.

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

5.6 Evaluate his/her work and that of others using constructive feedback.

- 5.6.1. Practice constructive feedback during practical and media sessions.

5.7. Recognize own personal and professional limits and seek help from colleagues and supervisors when necessary.

- 5.7.1. Practice constructive feedback and reflection from teachers and peers.
- 5.7.2. Recognize self-defects and ask for help from teachers and peers when necessary.

Competency Area VI: The graduate as a lifelong learner and researcher

6.1. Regularly reflect on and assess his/her performance using various performance indicators and information sources.

- 6.1.1. Consider the information resources including the available electronic facilities to update knowledge and to manage and manipulate information.

6.2. Develop, implement, monitor, and revise a personal learning plan to enhance professional practice.

- 6.2.1. Engage and revise personal learning plan to improve professional practice.

6.3. Identify opportunities and use various resources for learning.

- 6.3.1. Use effectively various learning resources.

6.4. Engage in inter-professional activities and collaborative learning to continuously improve personal practice and contribute to collective improvements in practice.

6.4.1. Develop collaborative learning to improve personal practice.

6.4.2. Interpret problems of medical students in communicating with their colleagues, staff and administration.

6.6 Effectively manage learning time and resources and set priorities.

6.6.1. Recognize the importance of time management and manage effectively the available resources and set priorities.

6.8. Critically appraise research studies and scientific papers in terms of integrity, reliability, and applicability.

6.8.1. Demonstrate insight into research and scientific methods through involvement of simple research.

6.8.2. Recognition of the importance of precision in collecting, analyzing and interpreting medical data.

6 – Course/ Module Contents

Topics							ILOs covered
	Lectures	practical	Media	SDL	Exam	Total Hours	
Medicolegal importance of age identification	2	3	2	2		9	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Identification of sex	1	3		2		6	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medico-legal importance of identification	1			2		3	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
How to identify a living person?			1	1		2	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medicolegal aspects of blunt & sharp force wounds	4	4		1		9	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8

Topics							
Circumstances of injuries			1	1		2	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8,
Causes of death from wounds	1			2		4	1.8, 1.9, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medicolegal aspects of firearm injuries	4	3	1	3		11	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medicolegal aspects of head injuries	4	4	1	4		13	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medicolegal aspects of regional injuries	1			3		5	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medicolegal aspects of physical injuries	3		1	2		6	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Primary Medicolegal report	1	4	1	1		8	1.8, 1.17, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Death & postmortem changes	1	3		2		7	1.8, 1.9, 1.17, 3.1, 3.2, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Death certificate		3	1	2		5	1.8, 1.9, 1.17, 3.1, 3.2, 3.6, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Asphyxia	3	4	1	2		8	1.8, 1.9, 1.17, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7,

Topics							
							6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medicolegal aspects of brain death	1			1		2	1.8, 1.9, 1.17, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Fetal age			1			1	
Sexual offences	2			2		4	1.8, 1.9, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Medicolegal aspects of pregnancy, delivery & abortion	1			1		2	1.8, 1.9, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Non-accidental injuries in children	1	3		1		4	1.8, 1.9, 1.17, 2.8, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Suspicious death	1			2		3	1.8, 1.9, 1.17, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Collection of evidence	2		1	2		5	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8
Project		2	1			3	All

7 - Teaching and learning methods

- Online lectures (videos)
- Team based learning
- Small-group active learning
- Case-based small group discussion
- Oral presentation using PowerPoint
- Multi-media
- Self-directed learning
- Home assignments
- Portfolio

Item	Time schedule	Teaching hours
Online lectures	3h /week	42
Practical	1h /week	14
Media	1h/week	14
Self-directed learning	3h/week	52
Total		122

8 - Student evaluation**8-1 COURSE POLICIES****8.1.1. Attendance:**

Attendance is mandatory to all sessions. Due to the course emphasis in developing skills and not only knowledge, the students' participation in all course activities is critical. Students who expect to be late for a mandatory class, lab, or small group session for any reason must contact the course director before the start of class. Unexcused absences demonstrate unprofessional behavior by the student.

8-1-2 Remediation of Unsatisfactory Performance in Course

A student who performs below the satisfactory level will be notified to Course Director for the purpose of developing a formal remediation plan which will be established by the course director and the student.

8-1-3 Missing tests

- Students with accepted excuse for missing a test will have no grade for the missed test and their mean grade for tests will be based only on those that they completed.
- Students missing a test without sufficient reason will have a zero as grade for the missed tests, which will be incorporated to obtain the mean grade for their tests and the final grade for the course.

8-2 Course assessment:

Formative and summative assessment: they include:

- Assignments (Electronic), Portfolio, PPT and quizzes (Electronic), Formative tests.
- Written exams: MCQs in addition to case studies. (Electronic or paper based).
- Practical skills assessment: Practical Exam. Log book.

8-3 course assessment schedule and grading:

Grades are obtained based on the following complementary assessments:

Assessment Method	Date	Description	ILOs/Competencies assessed	Marks	% of Total
1.Continuous assessments (Portfolio)	Through the semester	<ul style="list-style-type: none"> Log book 1 Quizzes (online) 	1.8, 1.9, 1.17, 2.8, 3.1, 3.2, 3.6, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	25	25
		PPT presentation at 6th week		5	5
2- Mid-semester exam	Mid-semester	MCQ	1.8, 1.9	10	10
3- Practical exam OSPE	End semester	OSPE	1.8, 1.9, 1.17, 2.8, 3.1, 3.2, 3.6, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2,	30	30

Assessment Method	Date	Description	ILOs/Competencies assessed	Marks	% of Total
			6.3, 6.6		
4- Final written exam	End semester	MCQ & Short Answered Questions, give reason, cases	1.8, 1.9, 1.17, 2.8, 4.8	30	30
Total				100	100

9. Facilities required

- Lecture rooms with data show and computer facilities
- Large room (hosting 100 students) with 10 round table (equipped with 10 -15 chairs)
- Computer lab equipped with internet connection
- Computing resources
- Flip chart and colored pen
- A wall white board
- Facilities for photocopying

10 - List of references

TEXTBOOK, MATERIALS, READINGS, RESOURCES, TERMINOLOGY

Mandatory Textbook:

- Department Notes of forensic medicine.
- Simpson's Forensic Medicine, Twelfth Edition by Richard Shepherd

Websites:

- [www.forensic medicine for medical students](http://www.forensicmedicineformedicalstudents.com)
- [www.internet pathology laboratory for medical education.com](http://www.internetpathologylaboratoryformedicaleducation.com)
- www.emedicine.com

Recommended reference textbooks:

- Knight's Forensic Pathology, 3rd ed by Pekka Saukko and Bernard Knight

Course coordinator: Prof. Dr. Ayman Nagi .

Co-coordinator: Ass. Prof .Dr. Marwa Shahin

A) Summary of topics matched with competencies' domains ILOs in the module

The name of course		University: Tanta /Academy				
Code of course		Faculty: Medicine				
Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Online lectures:						
Medicolegal aspects of age identification	√			√	√	√
Medicolegal aspects of sex identification	√			√	√	√
Medico-legal importance of identification	√				√	√
Medicolegal aspects of blunt & sharp force wounds	√			√	√	√
Medicolegal aspects of head injuries	√			√	√	√
Causes of death from wounds	√				√	√
Medicolegal aspects of firearm injuries	√			√	√	√

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Medicolegal aspects of regional injuries	√			√	√	√
Medicolegal aspects of physical injuries	√			√	√	√
Death & postmortem changes	√			√	√	√
Primary medicolegal report	√				√	√
Asphyxia	√		√	√	√	√
Medicolegal aspects of heat related disorders	√				√	√
Sexual offences & pregnancy	√				√	√
Medicolegal aspects of pregnancy, delivery & abortion	√				√	√
Medicolegal aspects of brain death	√			√	√	√
Child and elderly abuse	√	√			√	√

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
Collection of evidence	√			√	√	√
Suspicious death	√		√	√	√	√
Problem solving in forensic	√	√	√	√	√	√
Practical						
Identification of age	√		√	√	√	√
Identification of sex	√		√	√	√	√
Blunt force wounds	√		√	√	√	√
Sharp force wounds	√		√	√	√	√
Head injuries (blunt)	√		√	√	√	√
Head injuries (sharp)	√		√	√	√	√
Ballistics	√		√	√	√	√
MLR	√		√	√	√	√
Death certificate	√	√	√	√	√	√
Asphyxia	√		√	√	√	√
Review	√	√	√	√	√	√
Media						
Age identification	√		√	√	√	√

Topics of the course	Health care provider	Health promoter	Professionalism	Scholar and scientist	Health team & system	LLL & researcher
How to identify a living person?	√		√	√	√	√
Circumstances of injuries	√		√	√	√	√
Head injuries	√		√	√	√	√
Firearm injuries	√		√	√	√	√
MLR	√		√	√	√	√
Death certificate	√	√	√	√	√	√
Diagnosis of death	√		√	√	√	√
Asphyxia	√		√	√	√	√
Physical injuries	√		√	√	√	√
Child and elderly abuse	√	√	√	√	√	√
Collection of evidence	√		√	√	√	√
Wounds case scenarios	√		√	√	√	√
Revision	√	√	√	√	√	√
SDL						

Course coordinator

B) Summary of topics, schedule, and methods of teaching & assessment, ILOs assessed, hours and marks of the module:

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Online lectures:							
Medicolegal aspects of age identification	<ul style="list-style-type: none"> - Define identification - Recognize types of identification - Discuss methods of Identification Of age in a living person. -Identify ages of medico-legal importance in Egypt 	1	Online video	MCQ, ultrashort	1.8,1.9,4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	2	
Medicolegal aspects of sex identification	<ul style="list-style-type: none"> -Discuss the medicolegal importance of sex identification -Describe methods of sex Identification in a living person. - Diagnose differentially inter sex States 	1	Online video	MCQ ultrashort	1.8,1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Medico-legal importance of identification	<ul style="list-style-type: none"> -Recognize medicolegal importance Of fingerprints and footprints. - Describe medicolegal importance of teeth examination - describe medicolegal importance of Clothes examination. - Discuss medicolegal importance of Genetic markers. - recognize role of sex chromatin in Identification. - Recognize medicolegal importance of tattoo marks, nails and other evidence as a method of 	2	Online video	MCQ ultrashort	1.8,1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	Identification.						
Medicolegal aspects of Blunt & sharp force wounds	<ul style="list-style-type: none"> - Identify wounds - Mention different classifications of wounds - Discuss medico-legal aspects of wounds inflicted by blunt or sharp instruments as regards definition, causative instrument, mechanism of infliction, characters, subtypes, wound dating and medicolegal Importance. - Differentiate between cut and contused wounds. - Define fabricated and defense wounds and their medicolegal Significance. - D.D between ante mortem ostmortem wounds 	2,3	Online video	MCQ ultrashort	1.8, 1.9,4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	4	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	-Differences between homicidal and suicidal						
Causes of death from wounds	- Mention causes of death from Wounds. - Discuss medicolegal aspects of different causes of death from wounds as neurogenic shock, hemorrhage, embolism and Infection. -Recognize physician role in case of death from wounds.	3	Online video	MCQ Ultrashort	1.8, 1.9, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	2	
Firearm injuries	- Mention different firearm weapons. - Recognize characteristics of firearm injuries - Differentiate between inlet and exit of firearm. - Differentiate between firearm	4,5	Online video	MCQ ultrashort	1.8, 1.9, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	4	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	<p>injuries from puncture wound.</p> <ul style="list-style-type: none"> - discuss causes of death in case of firearm injury. - Discuss physician role in victims with firearm injuries. 						
Death & PM changes	<ul style="list-style-type: none"> - Define death and discuss its types. - discuss the importance of determination of clinical death. - describe medicolegal aspect of suspended animation. - Recognize early signs of death. - Discuss postmortem changes and its medicolegal importance - Differentiate between bruises and hypostasis. - Estimate approximate postmortem interval. 	5	Online video	MCQ	1.8, 1.9, 1.17, 3.2, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	3	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Primary medicolegal report	<ul style="list-style-type: none"> -Know who has the right to request medical report for legal purposes -Recognize what Do and Not to do while writing medical reports. -Identify types of Medical reports -Define primary medical report and its importance. -Enumerate reasons for inaccuracies in primary medical reports -Discuss forging medical certificates -Recognize pillars of forging medical certificates. -List items of the medical report. -Discuss role of physician while 	5	Online video	MCQ	1.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	writing medical reports.						
Head injuries	<ul style="list-style-type: none"> - Recognize medicolegal aspects of scalp injuries - Discuss types of skull fractures, meningeal hemorrhages and brain injuries (causative instruments, mechanism of infliction, characters and dangers). - Explain the definition, mechanism & medico-legal importance of lucid interval - Medicolegal importance of coup and countercoup. - Discuss role of the physician in cases of head injuries to avoid malpractice litigation 	6,7	Online video	Mcq Ultrashort	1.8, 1.9, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8		
Physical injuries	<ul style="list-style-type: none"> - Define different types of physical injuries - Compare between different 	7,8	Online video	MCQ Ultrashort	1.8, 1.9, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2,		

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	<p>types Of burns.</p> <ul style="list-style-type: none"> - Discuss mechanism of death from Burns. - Differentiate between A.M & P.M burns - Discuss physician role in victims with physical injuries - Recognize electrical injuries and Fatalities 				6.3, 6.4, 6.6, 6.8		
Asphyxia	<p>Define asphyxia, classify types of asphyxia and explain its stages.</p> <ul style="list-style-type: none"> - Mention different types of violent asphyxia - Identify its characteristic manifestations of each type of violent asphyxia. - Recognize cause of death in each type of violent asphyxia - Discuss physician role in 	8,10	Online video	MCQ	1.8, 1.9, 1.17, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	4	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	dealing with victims of asphyxia.						
Sexual offences	<ul style="list-style-type: none"> - Define different types of sexual offences - Characterize types of wounds in each type - Discuss legal aspects of rape and Other sexual crimes. - List types of hymen with specific attention to hymens of medicolegal Importance. - Recognize signs of virginity. - Discuss role of general practitioner in case of sexual offences 	10	Online video	MCQ	1.8, 1.9, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	2	
Medicolegal aspects of pregnancy, delivery & abortion	<ul style="list-style-type: none"> - Discuss medicolegal aspects of pregnancy and delivery - Diagnose pregnancy and delivery in medicolegal cases. - Mention legal definition of 	11	Online video	MCQ Ultrashort	1.8, 1.9, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.84	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	abortion - Discuss medicolegal aspects of abortion - List types and complications of abortion - Mention indications and precautions of therapeutic abortion - Determine the intra-uterine fetal ages. - Recognize causes of death in case of criminal abortion						
Non accidental injuries in children	-Define what is meant by domestic violence -Define child and elderly abuse. -List types of child and elderly abuse -Discuss common features of abuse in children and elder	11	Online video	MCQ Ultrashort	1.8, 1.9, 1.17, 2.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	<ul style="list-style-type: none"> -Recognize causes of death in fatal child abuse -Differentiate between fatal child abuse and common murder. - Discuss the role of physician in domestic violence 						
Regional injuries	<ul style="list-style-type: none"> -Mention types of injuries in neck, chest, abdomen, pelvis, limbs and spinal cord. -Discuss causative instrument and mechanism of infliction of each type and its medicolegal significance -Discuss physician role in victims with injuries in neck, chest, abdomen, pelvis, limbs and spinal cord to avoid medical error 	11	Online video	MCQ	1.8, 1.9, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Medicolegal aspects	- Define brain death	12	Online	MCQ	1.8, 1.9, 1.17, 4.8, 3.2, 5.2,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
of brain death	<ul style="list-style-type: none"> - Demonstrate types of brain death - Discuss precautions taken before certifying brain death 		video		5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8		
Collection of evidence	<ul style="list-style-type: none"> -Define and value forensic evidence -Recognize types of forensic evidences -Identify chain of custody. -Describe the common circumstances where analysis may be requested. -Recognize role of the physician and precautions in collecting, storage of samples, stains and specimens. -Discuss types of evidences and methods for collection in cases of wounds, firearm injuries, sexual assaults and in acute 	13	Online video	MCQ Ultrashort	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	poisoning.						
Suspicious death	-Define sudden death and unexpected death -List common causes of sudden death in adults and in children -Mention points for the diagnosis of the cause of death in such cases. - Recognize dead cases that give rise to suspicions in cause or manner of death. - Discuss role of the physician on suspension of the cause of death.	13	Online video	MCQ Ultrashort	1.8, 1.9, 1.17, 3.2, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Practical							
Identification of age	- Estimate ages of unknown skeletal remains from epiphyseal union	2,3	Bone samples, x-ray	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
					5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8		
Identification of sex	Diagnose differentially male and female skeletal remains (skull, sternum, mandible and hip bone)	2,3	Bone samples, photos	OSPE	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Blunt force wounds	Differentiate between injuries and diagnose types of wounds caused by blunt instrument. -Diagnose the causative instrument and possible cause of death from findings of wound examination.	4	Jars, photos	OSPE	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Sharp force wounds	-Differentiate between injuries and diagnose types of wounds caused by sharp instrument. -Diagnose the causative instrument and possible cause of death from findings of	4	Jars, photos	OSPE	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	wound examination.						
Ballistics	-Identify the extracted missiles or related products of firing	5	Samples of ballistics, photos	OSPE	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	2	
Diagnosis of death	- Identify signs used in diagnosis of Death. Identify early and late signs of postmortem changes. - Diagnose different conditions mistaken with some postmortem changes.	7	photos	OSPE, CA	1.8, 1.9, 1.17, 3.1, 3.2, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Head injuries (blunt)	- Recognize different types of skull fractures caused by blunt instrument through examination of skulls and X rays - State the causative	8	Jars, bone samples, photos, x-ray CT	OSPE	1.8, 1.9, 3.1, 4.8. 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	2	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	instruments and predict potential complications of these injuries.						
Head injuries (sharp)	<p>Recognize different types of skull fractures caused by sharp instrument through examination of skulls and X rays</p> <p>- State the causative instruments and predict potential complications of these injuries.</p>	8	Jars, bone samples, photos, x-ray CT	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Physical injuries	<p>- Differentiate between and diagnose types of physical injuries.</p> <p>- State the causative agent.</p> <p>- Predict possible complications.</p>	10	Photos	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Asphyxia	-Differentiate between hanging and strangulation	11	Photos, jars	OSPE	1.8, 1.9, 1.17, 3.1, 4.8, 5.2,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	- diagnose other types of asphyxia death through their circumstances.				5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8		
Fetal age	-Estimation of age of fetus.	11	Photos	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
MLR	Practice how to write a proper primary medico-legal report in different types of injuries	12	Photos	OSPE, CA	1.8, 1.17, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Death certificate	- Discuss importance of death certificate. - Recognize the Egyptian system and the physician role in writing death certificate - Write death certificate in cases of natural and un-	13	Case scenario, Format of death certificate	OSPE, CA	1.8, 1.9, 1.17, 3.1, 3.2, 3.6, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	natural death						
Non- accidental injuries in children	-Classify types of child abuse -Describe patterns of injuries in physical child abuse -Recognize role of physician on suspicion of child abuse	14	Photos, x-rays	OSPE	1.8, 1.9, 1.17, 2.8, 3.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Media							
Age identification	- Estimate unknown ages of skeletal remains from epiphyseal union	2,3	Audio-visual, photos	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
How to identify a living person?	- Estimate unknown ages of a living person through X-ray examination	2,3	Audio-visual, X-ray	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Circumstances of injuries	<ul style="list-style-type: none"> - Recognize different circumstances of injuries in forensic practice - Differentiate between accidental, suicidal and homicidal injuries - Discuss the role of physicians in different circumstances of injuries 	4		OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Wounds case scenarios	-Discuss case scenarios of different types of injuries	4	Photos	CA	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Firearm injuries	<ul style="list-style-type: none"> - Diagnose firearm wounds - Identify the causative weapon. - Recognize the mechanism of firing. 	5	Audio-visual, photos	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Head injuries	<ul style="list-style-type: none"> - Recognize different types of skull fractures and intracranial hemorrhages - Demonstrate mechanism of countercoup brain injury in deceleration injuries through watching and discussing some video clips 	8	Audio-visual, photos, X-ray	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Physical injuries	<ul style="list-style-type: none"> - Differentiate between and diagnose types of physical injuries. - State the causative agent. -Predict possible complications. 	10	Photos	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Asphyxia	<ul style="list-style-type: none"> -Recognize general signs of asphyxia -Classify types of violent asphyxia -Identify probable and highly suggestive signs of drowning 	11	Photos	OSPE	1.8, 1.9, 1.17, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
Fetal age	-Estimation of age of fetus.	11	Photos	OSPE	1.8, 1.9, 3.1, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
MLR	Practice how to write a proper primary medico-legal report in different types of injuries	12	Photos	OSPE, CA	1.8, 1.17, 3.1, 3.2, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Death certificate	<ul style="list-style-type: none"> - Discuss importance of death certificate. - Recognize the Egyptian system and the physician role in writing death certificate - Write death certificate in cases of natural and un-natural death 	13	Case scenarios	OSPE, CA	1.8, 1.9, 1.17, 3.1, 3.2, 3.6, 4.8, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8	1	
Collection of evidence	- List types of samples to be collected in different forensic	14	Audio-visual,	OSPE, CA	1.8, 1.9, 3.1, 4.8, 5.2, 5.3,	1	

Topics of the course	Objectives	Week	Method of teaching	Method of assessment	ILOs	Hours	Weight in assessment
	cases. - Demonstrate how to collect, preserve and document evidence (samples).		photos		5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.6, 6.8		
Self-directed learning							

C) Course – program ILOs Matrix/

Course ILOs Program ILOS		Healthcare provider			Health promoter	Professional			Scholar & scientist	Health team & System						The graduate as a lifelong learner and researcher							
		1.8	1.9	1.17	2.8	3.1	3.2	3.6	4.8	5.2	5.3	5.4	5.5	5.6	5.7	6.1.1	6.1	6.2	6.3	6.4	6.6	6.8	6.6.1
Competency 1	1.1																						
	1.2																						
	1.3																						
	1.4																						
	1.5																						
	1.6																						
	1.7																						
	1.8	*																					
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	1.10																						
	1.11																						
	1.12																						

Course ILOs		Healthcare provider			Health promoter		Professional			Scholar & scientist		Health team & System					The graduate as a lifelong learner and researcher						
	1.13																						
	1.14																						
	1.15																						
	1.16																						
	1.17			*																			
Competency 2	2.1																						
	2.2																						
	2.3																						
	2.4																						
	2.5																						
	2.6																						
	2.7																						
	2.8					*																	
	2.9																						

Course ILOs		Healthcare provider			Health promoter		Professional			Scholar & scientist		Health team & System					The graduate as a lifelong learner and researcher						
Competency 3	3.1						*																
	3.2							*															
	3.3																						
	3.4																						
	3.5																						
	3.6								*														
	3.7																						
	3.8																						
	3.9																						
Competency 4	4.1																						
	4.2																						
	4.3																						
	4.4																						
	4.5																						

Course ILOs		Healthcare provider			Health promoter			Professional			Scholar & scientist			Health team & System			The graduate as a lifelong learner and researcher									
	4.6																									
	4.7																									
	4.8									*																
Competency 5	5.1																									
	5.2										*															
	5.3											*														
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	5.9																									
	5.10																									
	5.11																									

Course ILOs		Healthcare provider			Health promoter		Professional			Scholar & scientist		Health team & System					The graduate as a lifelong learner and researcher						
	5.12																						
Competency 6	6.1																*						
	6.2																	*					
	6.3																		*				
	6.4																			*			
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