



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Forensic Medicine and Toxicology, Part of Special Medical Topics course
2	Course number	0548502
3	Credit hours (theory, practical)	3
	Contact hours (theory, practical)	Rotation of Two weeks, includes seminars and attending division activities
4	Prerequisites/requisites	Pass the fourth year
5	Program title	Doctor of Medicine
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Medicine
9	Department	Pathology, Microbiology and Forensic Medicine
10	Level of course	
11	Year of study and semester (s)	Fifth year, Summer, First and Second Semesters
12	Final Qualification	
13	Other department (s) involved in teaching the course	Whole course: Family Medicine, Radiology and Dermatology
14	Language of Instruction	English
15	Date of production/revision	30 th . Of August, 2018

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Prof. Abdelkader Battah, office phone number, 23489JU, akbattah@ju.edu.jo

Prof. Kamal Hadidi, office phone number, 23490JU, khadidi@ju.edu.jo

Prof. Imad Abdallat, office phone number, 234871 JU, 2169 JUH, imadabdallat@yahoo.com

Dr. Hasan Abderahman, office phone number 23487JU /, 2140 JUH, h.abderrahman@ju.edu.jo

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Prof. Abdelkader Battah, office phone number, 23489JU, akbattah@ju.edu.jo

Prof. Kamal Hadidi, office phone number, 23490JU, khadidi@ju.edu.jo

Prof. Imad Abdallat, office phone number, 234871 JU, 2169 JUH

Dr. Hasan Abderahman, office phone number 23487JU /, 2140 JUH

18. Course Description:

Each student will spend two weeks in forensic medicine and toxicology department. During this period the student will prepare and attend seminars in forensic medicine and toxicology, according to the schedule attached. The student will also attend examinations that are conducted at forensic medicine clinics at the hospitals and courts of law, emergency room, and mortuaries. Also, the students will attend the National Poison and Drug Information Center at JUH

19. Course aims and outcomes:

A- Aims:

The course is designed for medical graduate to acquaint the with forensic medicine and Toxicology principle, so that the graduate physician will be know his/her duties to manage suspected patients with potential poisoning and how to deal with medicolegal involved patients

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...

- a. Apply legal aspect of medical practice and principles of medical ethics.
- b. List medical issues needed for the application of non-medical Acts of law.
- c. Apply the principles of medico-legal cases and writing medico-legal reports.
- d. Understand physician's legal rights and duties towards Acts of Law
- e. Understand medical subjects related to forensic Medicine
- f. Apply principles of management of acute poisoning, types of poisoning, substance of abuse, their pathophysiology of intoxication, manifestation and their principle investigation.

20. Topic Outline and Schedule:

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference
Medical ethics and Medical Jurisprudence	1,2	Prof.Imad Abdallat, Dr. Hasan Abderahman	1. Define Forensic Medicine and Medical Jurisprudence 2. Forensic laboratory investigations 3. Introduction to non-medical acts of law 4. Aims or laws. Medico-legal cases, patients' rights and Physician duties regarding them, Medical laws (MOH, Medical councils, licensing) 5. Professional conduct, Etiquette and Ethics in medical practice. 6. Rights and privileges and duties of a registered medical practitioner 7. Medical certification and medico-legal reports including dying declaration		
Injuries or wounds		Prof.Imad Abdallat, Dr. Hasan Abderahman	Define, classify mechanical injuries; describe blunt force, sharp force and firearm injuries. Analyze medico-legal aspects of injuries		

Burns		Prof.Imad Abdallat, Dr. Hasan Abderahman	Define and list types of burn, expect their general complication Differentiate antemortem and post-mortem burns. Apply medico-legal aspects measures		
Violent Asphyxias, hanging and drowning		Prof.Imad Abdallat, Dr. Hasan Abderahman	Define violent Asphyxias, hanging and drowning List their causes, types, post-mortem appearances Apply medico-legal aspects measures		
Domestic violence		Prof.Imad Abdallat, Dr. Hasan Abderahman	Define child abuse and other domestic violence Apply medico-legal aspects measures		
Firearm Wounds		Prof.Imad Abdallat, Dr. Hasan Abderahman	Understand the basic principles of firearms work List the major substances emitted by a gun when it fires Know the basic principles of determination of the range of fire in rifled and smoothbore firearms Describe basic distinguishing features of entry and exit firearm wounds. Differentiate accidental, suicidal or homicidal firearm wound		
Identification		Dr. Hasan Abderahman	Define the principle of identification Identify unknown person, dead bodies and remains of a person by age, sex, stature, dental examination, scars, moles, tattoos, dactylography, DNA typing and personal belonging including photographs		
Death and Postmortem Changes		Prof.Imad Abdallat, Dr. Hasan Abderahman	1. Know the methods by which the postmortem interval can be estimated and their limitations. 2. Understand the way in which the body cools after death, its rate of doing so and the factors which influence this 3. know the nature and significance of hypostasis, cadaveric spasm, rigor mortis, putrefaction, mummification and adipoceros change and the rates at which these phenomena occur 4. Analyze the nature and significance of postmortem injury. 5. Causes of sudden death		
Mental health and organ transplant		Prof.Imad Abdallat, Dr. Hasan Abderahman	1.Laws and regulations 2.Role of physician		
Principles of clinical toxicology		Prof. Abdelkader Battah Prof. Kamal Hadidi	Comprehend the scope of toxicology Comprehend principles of dose response relationship List the factors affecting dose toxic effects List unusual toxic response List types of chemical interactions		

Approach to management of patient with suspected acute poisoning		Prof. Abdelkader Battah Prof. Kamal Hadidi	<ol style="list-style-type: none"> 1. Demonstrate thorough knowledge of supportive medicine 2. Recognize patients with suspected poisoning 3. Apply method for patient stabilization 4. Evaluate patients with suspected poisoning 5. Apply procedures to decontaminate the poison 6. Apply procedures to enhance illumination of the poison 6. Knows when and how to apply antidotes 7. Apply procedure to continuous support for the patient. 			
Alcohol poisoning (ethanol, Methanol, Ethylene glycols)		Prof. Abdelkader Battah Prof. Kamal Hadidi	<ol style="list-style-type: none"> 1. Know briefly the sources, absorption, metabolism and elimination of ethanol. 2. Know the measurement of ethanol consumption in units. 3. Know the effects of ethanol. 4. Know the local and some foreign laws concerning drinking & driving. 5. Interpret clinical findings in relation to alcohol levels. 6. Understand alcohol related causes of death. 			
Toxic gases and volatiles (Carbon monoxide, cyanide and sulfides)		Prof. Abdelkader Battah Prof. Kamal Hadidi	<ol style="list-style-type: none"> 1. Know the physical characteristics of these gases 2. Recognize the sources and circumstances of poisoning 3. Explain the mechanism of toxicity 4. Explain their toxicokinetics 5. Recognize acute poisoning and list their clinical manifestation 6. Conduct the proper investigations 7. Manage poisoned patients 			
Substance of Abuse		Prof. Abdelkader Battah Prof. Kamal Hadidi	<ol style="list-style-type: none"> 1. Know the terms related to substance of abuse. 2. Laws and regulations related to psychoactive substances and drugs of abuse. 3. List examples of abusable substances to include common CNS depressants, Stimulants and Hallucinogen agents 4. List examples for each category 5. Recognize method of abuse, manifestation of abuse and toxicity of them, mechanism of action and investigations 6. Outline management approach for acute poisoning and physical dependence 			

Pesticides (Organophosphates, carbamates)		Prof. Abdelkader Battah Prof. Kamal Hadidi	1.Type on common pesticides 2.Mechanism of toxicity of insecticides 2.Toxicokinetics 3.Recognize acute poisoning and their clinical manifestation 4.Management of acute poisoning			
Common drug poisoning (acetaminophen and designer drugs)		Prof. Abdelkader Battah Prof. Kamal Hadidi	1.Sources of exposure 2. Mechanism of toxicity 3.Absorption, metabolism and excretion 4.Acute poisoning and clinical manifestation of poisoning 5.Treatment of poisoning			
Doping in sport		Prof. Abdelkader Battah Prof. Kamal Hadidi	1.Prohibited list 2.Prohibited method and types of doping 3.Role of physician			
Miscellaneous poisons		Prof. Abdelkader Battah Prof. Kamal Hadidi	Emerging topic in toxicology			

21. Teaching Methods and Assignments:

<p>Development of ILOs is promoted through the following <u>teaching and learning methods</u>:</p> <p>Seminars Attending Forensic medicine clinic at JUH and Court of Law Attending postmortem Attending Poison and drug information center</p>

22. Evaluation Methods and Course Requirements:

<p>Opportunities to demonstrate achievement of the ILOs are provided through the following <u>assessment methods and requirements</u>:</p> <p>Attendance Participation in the activities End of rotation OSCE exam</p>
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23. Course Policies:

<p>A- Attendance policies: Obligatory</p> <p>B- Absences from exams and handing in assignments on time: With excuse, exam will arranged</p> <p>C- Health and safety procedures: Strictly should be followed</p> <p>D- Honesty policy regarding cheating, plagiarism, misbehavior:</p>

Part of code of ethic of forensic medicine practice
E- Grading policy:
As faculty council regulation
F- Available university services that support achievement in the course:
Clinics, mortuary, Seminar rooms, National drug and poison information centre, internet

24. Required equipment:

None

25. References:

A- Required book (s), assigned reading and audio-visuals:
1. Forensic Pathology. Night B.
2. Gunshot wounds. DiMaio JM.
3. Forensic Medicine. Maison
4. Medical Toxicology, Diagnosis and Treatment of Human Poisoning, Ellenhorn, Barceloux
5. Principles of Clinical Toxicology, Gossel TA, Bricker JD.

B- Recommended books, materials, and media:

National Poison and drug information center at JUH
Related scientific websites

26. Additional information:

Name of Course Coordinator: **Dr. Hasan AbdeRahman** Signature: -----Date: 27-6-2019
Head of curriculum committee/Department: ----- Signature: -----
Head of Department: **Prof. Abdelkader Battah**. Signature: -----
Head of curriculum committee/Faculty: ----- Signature: -----
Dean: ----- -Signature: -----

Quality Assurance

Copy to:
Head of Department
Assistant Dean for

Course File