



## Course Specifications

<b>Course Title:</b>	<b>Forensic Medicine and Toxicology</b>
<b>Course Code:</b>	<b>482 FMT-3</b>
<b>Program:</b>	<b>Bachelor of Medicine and Bachelor of Surgery (MBBS)</b>
<b>Department:</b>	<b>NA</b>
<b>College:</b>	<b>Medicine</b>
<b>Institution:</b>	<b>Najran University</b>

## A. Course Identification

<b>1. Credit hours:</b>	3 (2+1)
<b>2. Course type</b>	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input type="checkbox"/> program <input checked="" type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
<b>3. Level/year at which this course is offered:</b>	Semester 3, level 12, Year 4
<b>4. Pre-requisites for this course (if any):</b>	None
<b>5. Co-requisites for this course (if any):</b>	None

### 6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	50%
2	Blended	-	
3	E-learning	-	
4	Distance learning	-	
5	Other	30	50%

### 7. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1	Lecture	30
2	Laboratory/Studio	30
3	Tutorial	0
4	Others (specify)	0
	<b>Total</b>	<b>60</b>

## B. Course Objectives

### 1. Course Description

The course (482FMT-3) represents an introduction to Forensic Medicine, Postmortem pathology, Forensic sciences, and Toxicology. The students will study legal, professional, and ethical aspects of Forensic Medicine, identification, cause, mechanism and manner of death, unexpected and natural death, Forensic Sciences, mechanical and physical trauma, injury, drowning, and toxicology. In addition, they will study a detailed subject about the legal responsibilities of doctors working in hospitals and suspecting and reporting a Medico-legal case. The students will be evaluated on their various levels of learning, knowledge, cognitive skills, interpersonal skills and responsibility, communication, and information technology

- Teaching will be focused on interactive lectures with encouraging e-learning.
- In addition, the concept of self-directed learning (SDL) will be focused on as a lifelong task for both undergraduate and postgraduate students.

Furthermore, self-learning is considered the main pillar of unofficial learning.

- Continuous updating and reforming of the study guide (syllabus) of the module will be done regularly to keep the course updated.

The course will be re-evaluated each year to add changes to the content of the forensic topics according to new research, new applications, and new technologies to increase the strength of student's knowledge

## 2. Course Main Objective

1- The broad goals of teaching this course of Forensic Medicine and Toxicology to undergraduate students are to produce a well-informed physician about his Medicolegal responsibilities during his medical practice. At the same time, to be aware of the latest advances in Forensic Medicine & Toxicology and their medicolegal importance.

The broad goal of teaching this course of Forensic Medicine and Toxicology to undergraduate students is to produce a well-informed physician about his Medicolegal responsibilities during his medical practice. At the same time, to be aware of the latest advances in Forensic Medicine & Toxicology and their medicolegal importance.

2- Briefly describe any plans for developing and improving the courses that are being implemented. (e.g., increased use of IT or web-based reference material, changes in content because of new research in the field)

At the end of this course of Forensic Medicine and Toxicology, the students will be able to:

- a- Diagnose death and declare a logical conclusion and frame the opinion on the cause, manner, and time since death.
- b- Identify the medicolegal cases, carry out the medical examination in such cases, and prepare a medicolegal report according to the law.
- c- Differentiate between different types of wounds in criminal cases and discuss their medico-legal importance.
- d- Deal with cases of sexual assault and child abuse.
- e- Discuss the major forensic malpractice and neglecting problems in the community, and the way of dealing with it.
- f- Definition of DNA fingerprinting, Techniques of DNA Fingerprinting, Application of DNA profiling in forensic Medicine.
- g- Be aware of general principles of analytical, environmental, occupational, and nanotoxicology. In addition to being able to diagnose and manage the cases of acute and chronic poisoning and carry out medicolegal duties.

## C. Course Content

No	List of Topics	Contact Hours
1	Introduction to forensic medicine (lecture)	1
2	Forensic death and organ transplantation (lecture)	1
3	Postmortem changes i(lecture)	1
4	Postmortem changes ii(lecture)	1
5	Post mortem changes i (practical)	2
6	Post mortem changes ii (practical)	2
7	Post mortem changes iii (practical)	2
8	Violent asphyxia i(lecture)	1
9	Violent asphyxia (practical)	2
10	Wounds and their interpretation i(lecture)	1
11	Wounds and their interpretation i(lecture)	1
12	Wounds and their interpretation (practical)	2
13	Gunshot wounds (lecture)	1

14	Gunshot wounds (practical)	2
15	Head injuries (lecture)	1
16	Head injuries (practical)	2
17	Sudden infant death syndrome (lecture)	1
18	Child abuse (lecture)	1
19	Sexual offences (lecture)	1
20	Forensic dna technology (lecture)	1
21	Forensic dna technology (practical)	2
22	Disputed paternity (lecture)	1
23	Medico-legal aspects of pregnancy, delivery, and abortion (lecture)	1
24	Medico-legal aspects of pregnancy, delivery, and abortion (practical)	2
25	Forensic identification (lecture)	1
26	Forensic identification (practical)	2
27	Legal responsibilities of doctors working in hospitals and suspecting and reporting a medico-legal case (lecture)	1
28	Legal responsibilities of doctors working in hospitals and suspecting and reporting a medico-legal case (practical)	2
29	Medical negligence and malpractice	1
30	History and introduction to toxicology (lecture)	1
31	General toxicology (lecture)	1
32	General toxicology (practical)	2
33	Hair and fibers and their medico-legal importance (lecture)	1
34	Drug abuse (lecture)	1
35	Drug abuse (practical)	2
36	Animal poisons, snake bite, scorpion bite, wasp, bee & toxic fishes (lecture)	1
37	Lead, salicylates, iron mercury, phosphorus, and cyanide poisoning (lecture)	1
38	Lead, salicylates, iron mercury, phosphorus, and cyanide poisoning (Practical)	2
39	Nanotoxicology (lecture)	1
40	Ethanol, methanol, and ethylene glycol toxicity (lecture)	1
41	Ethanol, methanol, and ethylene glycol toxicity (Practical)	2
42	Food poisoning (lecture)	1
43	How to deal with acute poisoning in the emergency room ER) (lecture)	1
44	Toxicity of corrosive inorganic acids and alkalis (lecture)	1
45	Most common toxicity of pharmaceutical drugs (lecture)	1
<b>Total</b>		<b>60</b>

#### D. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Quizzes (2)	3 <sup>rd</sup> , 7 <sup>th</sup>	20%
3	Mid-term exam (SAQs)	6 <sup>th</sup>	20%
4	Final practical exam (OSPE)	13 <sup>th</sup>	20%
5	Final course exam (A-type MCQs)	13 <sup>th</sup>	40%

*Multiple Choice Questions, OSPE: objective structured practical examination*

\*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

## E. Learning Resources and Facilities

<b>Required Textbooks</b>	Jason Payne-James, Richard Jones, Steven B Karch, and John Manlove: Simpson's Forensic Medicine: 13th Edition, A Hodder Arnold Publication, 2011. ISBN-13: 978 0 340 986 035
<b>Essential References Materials</b>	List Essential References Materials (Journals, Reports, etc.) 1. Jay Dix. Color Atlas of Forensic Pathology. CRC Press. Boca Raton, 2000. ISBN: 9780849302787 2. Vincent JM. Di Maio, Dominick J. Di Maio. Forensic Pathology: 2nd Edition, CRC Press, 2001. ISBN 084930072X 3. Gordon L, Shapiro HA, Berson SD. Forensic Medicine. A guide to principles: 3rd Edition, Churchill Livingstone 1988. ISBN-10: 0443034400
<b>Electronic Materials</b>	i. Saudi digital library (SDL) ii. YouTube .com iii. Pathology CDs, iv. <a href="http://www.anwarica.com/dr/forensic_medicine">www.anwarica.com/dr/forensic_medicine</a>
<b>Other Learning Materials</b>	-

## 2. Facilities Required

Item	Resources
<b>Accommodation</b> (Classrooms, laboratories, demonstration rooms/labs, etc.)	Lecture rooms. Laboratories.
<b>Technology Resources</b> (AV, data show, Smart Board, software, etc.)	Computers, projectors (multimedia)
<b>Other Resources</b> (Specify, e.g., if specific laboratory equipment is required, list requirements or attach a list)	Forensic museum gross specimens, microscopes, illustrating microscope slides, illustrating boosters, ...etc.

## F. Specification Approval Data

<b>Council / Committee</b>	PATHOLOGY DEPARTEMNT
<b>Reference No.</b>	4/3/44
<b>Date</b>	07/03/1444

Course coordinator

Dr. Aboubida B.M

Head of Pathology Department  
Dr. Soliman Alsaiari