

## Course Specification Student Version

<b>Course Title:</b>	Forensic medicine& toxicology
<b>Course Code:</b>	FMT407
<b>Department:</b>	Basic Medical Sciences
<b>Program:</b>	Bachelor of Medicine and Surgery
<b>College:</b>	Vision College in Riyadh
<b>Institution:</b>	Vision College in Riyadh
<b>Revised:</b>	July 2025

#### A. Course Identification

1. Credit hours: 3 (2+0+1)
2. Level/year at which this course is offered: Level 7/Year 4
3. Pre-requisites for this course (if any): HBO203 - BAN203 - GAD203 - MBG203 - BPC204 - PDO204 – HBT204 - PDT204
4. Co-requisites for this course (if any): None

#### B. Teaching Methods

1	Lecture
2	Case-Based Tutorial

#### C. Course Description and Main objective



### 1. Course Description

The course is an introduction to Forensic Medicine, Postmortem pathology, and Toxicology. The students will be introduced to the legal and religious frames and codes of reference for common problems and improved their abilities and understanding towards these problems, professional and ethical aspects of Forensic Medicine, identification, cause, mechanism and manner of death, unexpected and natural death, Forensic Sciences, mechanical and physical trauma, and injury, drowning and toxicology. It helps them to recognize the principles of Forensic Medicine and general toxicology, besides modern techniques in forensic science laboratories. It also allows them to learn the basic autopsy techniques and how to write a full postmortem report. This will give them the chance to recognize the importance of the medical evidence and how to preserve it and maintain its continuity.

### 2. Course Main Objective

The overall objective of this course is to introduce the students to the legal and religious frames, general knowledge of forensic medicine and toxicology.

### 3. Course Objectives:

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

- Explain the facts relevant to the risk and etiological factors, the clinical features of common medical issues such as ischemic, toxic, traumatic factors, injuries, and the way in which they affect the body
- Identify social problems such as toxin and poisoning, road traffic accidents, alcohol, illicit drugs, violence rape and child abuse
- Critically analyze clinical data obtained through investigation and autopsy findings
- Communicate medical information appropriate, using writing skills (medical, death reports)
- Collaborate with other colleagues during projects and group work showing respect for boundaries.
- Uphold Islamic, legal, and ethical principles in health-related to judiciary matters
- Demonstrate self-regulation, and self-reflection in interacting with colleagues.

## D. Course Content

No	List of topics
1	Introduction to legal issues& investigations
2	Court procedures: Summons, conduct money, oath, affirmation, perjury, types of witnesses, recording of evidence, conduct of doctor in witness box
3	Medical certification and medico-legal reports including dying declaration.
4	Death: somatic, molecular and brain death and postmortem changes in eyes and cooling
5	Postmortem staining & rigor mortis
6	Decomposition, Mummification, adipocere formation
7	Sudden death & Postmortem interval

8	Violent asphyxia, general features, types and hanging
9	Throttling strangulation
10	Gagging, choking, drowning, traumatic and sexual asphyxia
11	Mechanical trauma and mechanism of wound production, types of wounds and abrasions, Bruises, and lacerated wounds, Incised wounds, and stab injuries
12	Characteristics of firearm wounds
13	Head Injuries, Neck, chest, and abdominal injuries
14	Traffic Injuries
15	Burns, Scalds and electrical injuries
16	Infanticide and child abuse
17	Torture and Domestic abuse
18	Pregnancy & delivery and abortion
19	Classification of poisons, principles of poisoning and factors modifying poisons
20	General management of poisoning
21	Insecticides & Rodenticides
22	Animal poisons
23	Environmental & Occupational poisoning
24	Over the counter drugs, food, and household poisoning
25	Substance of abuse, addiction and Opium and its derivatives
26	Identification

#### E. Assessment tools

#	Assessment task	Percentage of Total Assessment Score
1	Quizzes	10%
2	Assignment	10%
3	Midterm Exam	20%
4	Final OSPE	20 %
5	Final Written Exam	40 %
	<b>Total</b>	<b>100%</b>

#### F. Learning Resources

<b>Required Textbooks</b>	Simpson's Forensic Medicine, 13 <sup>th</sup> Edition, 2011, by Jason Payne-James, Richard Jones, Steven B Karch, and John Manlove (Author), ISBN-10: 0340986034
<b>Essential Reference Material</b>	<ul style="list-style-type: none"> <li>International journal of forensic medicine &amp; toxicology</li> <li>Forensic autopsy <a href="http://www.theapmla.net/files/PEX02_Forensic%20Autopsy%20Manual.opt.pdf">http://www.theapmla.net/files/PEX02_Forensic%20Autopsy%20Manual.opt.pdf</a></li> </ul>

Electronic Material	<ul style="list-style-type: none"><li>• <a href="https://www.ojp.gov/pdffiles1/Digitization/44094NCJRS.pdf">https://www.ojp.gov/pdffiles1/Digitization/44094NCJRS.pdf</a></li><li>• <a href="https://www.youtube.com/watch?v=4E9YxLAMzIQ">https://www.youtube.com/watch?v=4E9YxLAMzIQ</a></li><li>• <a href="https://www.youtube.com/watch?v=rBOTQEGmE3A">https://www.youtube.com/watch?v=rBOTQEGmE3A</a></li><li>• <a href="https://www.medicinenet.com/autopsy/article.htm">https://www.medicinenet.com/autopsy/article.htm</a></li><li>• <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6490584/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6490584/</a></li></ul>
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