Faculty Of Veterinary Medicine

Veterinary Medicine Program









Course Specification of Toxicology and Forensic Medicine

I.	Course Identification and General Info	rmation:				
1	Course Title:	Toxicology and Forensic Medicine				
2	Course Number & Code:	IM463				
		C.H Tota				
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total
		2	1	0	0	3
4	Study level/ semester at which this course is offered:	Second Semester of Fourth Year				
5	Pre –requisite (if any):		ANT232, A	NT234, PH3	345	
6	Co –requisite (if any):					
7	Program (s) in which the course is offered:	Veterinary Medicine				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Veterinary Medicine Building				
10	Prepared by:	Dr. Hussein Abdulhadi Nasser Al-Wadei				
11	Date of approval:					

II. Course description:

Forensic Medicine deals with the techniques applied in medical science for the purpose of law and Toxicology is about detecting and isolating of symptoms produced by a poison or toxin on living being (human, animal, etc.). Forensic Medicine will teach students how to define death and identify its types, determining the early and late stages of death and an in-depth study of a variety causing deaths such as homicide, malnutrition, diseases, starvation and accidents.

In toxicology, the students are familiarized with the general characteristics of various poisons, the toxic principle present in them, their mechanism of action, their fatal period and fatal dose, the signs and symptoms associated with each poison, the post-mortem appearances associated with them, their medicolegal aspects, and lastly their isolation and detection techniques.

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Quality Assurance Unit Dr. Abdulraqeb Alshami

Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany

Faculty Of Veterinary Medicine

Veterinary Medicine Program

Prepared by

Dr. Hussein Al-Wadei









II	III. Intended learning outcomes (ILOs) of the course:				
	Knowledge and Understanding:	<i>5) 0</i>			
	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding.				
	rogram Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding	Co		rning Outcomes (CILOs) in: and Understanding	
After completing this program, students will be able to: After completing this course, students will be able to:				, students will be able to:	
A3-	Clarifies basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care that is related to animal ethical codes. Identifies various causes of animal diseases, animal epidemics and how they can be diagnosed; including common and lifethreatening diseases of animals, poultry and fish.	a1- a2-	polluting the animal, avian and aquatic environments and the diseases caused by them and to understand the methods of animal identification, possible causes of death		
	Teaching And Assessment Method Alignment of Learning Outcomes of Knowledge and				
	urse Intended Learning Outcomes (CILOs) in Knowledge and Understanding		Teaching ategies/methods to be used	Methods of assessment	
a1-	Identify the types and sources of toxicants polluting the animal, avian and aquatic environments and the diseases caused by them and to understand the methods of animal	•	Lectures Dialogue and discussion Practical application (Labs)	The written test (Monthly, Midterm, Final) Short tests (Quizzes)	

Rector of Sana'a University Prof. Dr. Al-Qassim Mohammed Abbas

Academic Development Center & Quality

Assurance Ass. Prof. Dr. Huda Al-Emad

Dean of the Faculty

Ass. Prof. Dr. Abdu Alraoof

Al-Shawkany

Quality Assurance Unit

Dr. Abdulraqeb Alshami

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	identification, possible causes of death	• Scientific	Oral tests
a2-	Have knowledge and an understanding of how to interpret from clinical signs, laboratory diagnosis, and history, the final diagnosis of forensic and toxicological problems and adapt the proper treatment for such cases.	 trips Field and clinical training Simulation and demos Brainstorming Self education 	Practical tests (Lab Test) Evaluation of reports Assignments (Homeworks) Projects Presentations

(B)	Intellectual Skills:				
Alignr	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills				
Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skills Course Intended Learning Outcomes (CILOs) of Intellectual Skills				s (CILOs) of	
After completing this program, students will be able to: After completing this course, students will be able to:				ble to:	
B1-	Competently practices analytical and critical thinking skills in studying and assessing health problems and reading the results of animal medical examinations that is related to sciences.	b1-	b1- Identify risk factors, advantages and disadvantages of different epidemiological examinations. and to analyze the clinical evidence relevant to toxicological diseases.		
B2-	Predicts an appropriate medical diagnosis for the most common disease states through analysis of clinical story data and the results of medical examinations of a sick animal.	b2-	Choose appropriate quantitative and qualitative methodologies requested for laboratory diagnosis.		
	Teaching And Assessment Method	ods I	For Achieving Learn	ing Outco	mes:
Align	ment of Learning Outcomes of Intellectual Skil	ls to T	Ceaching Methods and As	sessment Me	ethods:
Course Intended Learning Outcomes (CILOs) in Intellectual Skills. Teaching strategies/methods to be used Methods of assessme			of assessment		
After able	completing this course, students will be to:	8 - 8		The written test Oral tests	

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b1-	Identify risk factors, advantages and disadvantages of different epidemiological examinations. and to analyze the clinical evidence relevant to toxicological diseases.	 Practical application (Labs) Problem Solving Cooperative learning and	Practical testsNote the performanceAchievement file
b2-	Choose appropriate quantitative and qualitative methodologies requested for laboratory diagnosis.	working groups - Scientific trips - Field and clinical training - Simulation and demos - Research costs and projects	 (Accomplishments) Evaluation of reports Evaluating student presentations

(C) Professional and Practical Skills:					
Align	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Professional and Practical Skills				
Program Intended Learning Outcomes (Sub- PILOs) in Professional and Practical Skills (CILOs) in Professional and Practical Skills				<u> </u>	
After	completing this program, students will be able to:	After	completing this cours	e, students will be able to:	
C1-	Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks	c1-		and transport of AM and orming standard practical ques, interpreting	
С3-	Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	c2-	Interpret forensic and toxicological data and solving forensic-based problems		
	Teaching And Assessment Methods		0	0	
Align	ment of Learning Outcomes of Professional and Practical Sk	ills to T			
	Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills Strategies/methods to be used Methods of assess strategies/methods to			Methods of assessment	
After	completing this course, students will be able to:		Practical	 Practical tests 	

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Quality Assurance Unit Dr. Abdulraqeb Alshami Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany Academic Development Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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			application	•	Note the
c1-	Collect, preserve and transport of AM and PM samples, performing standard practical laboratory techniques, interpreting laboratory results	•	(Labs) Problem Solving	• ^	oerformance The written est
c2-	Interpret forensic and toxicological data and solving forensic-based problems	•	Cooperative learning and working groups Scientific trips Case Study Field and clinical training Simulation and practical presentations Research costs and projects	r	Oral tests Achievement ile Evaluation of eports Evaluating student presentations

(D)	(D) General / Transferable Skills:					
A	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills					
Program Intended Learning Outcomes (PILOs) in General / Transferable skills Course Intended Learning Outcomes (CILOs) i General / Transferable skills						
After o	completing this program, students will be able to:	Afte	r completing this course, students will be able to:			
D1-	Communicates effectively with other fellow professions and animal owners and expresses his ideas clearly and objectively.	d1-	Work effectively as a member of a teamwork in the delivery of services to community			
D2-	Develops his scientific, professional, research capabilities on his own, and follows what is emerging in his field of specialization, including computer applications and information and communication technology.	d2	Use new technology and have access to internet veterinary web sites and retrieve information			

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Quality Assurance Unit Dr. Abdulrageb Alshami

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	Teaching And Assessment Methods For Achieving Learning Outcomes:				
	Alignment of Learning Outcomes of General and Tra	nnsferable skills to Teaching and	d Assessment Methods:		
Cor	urse Intended Learning Outcomes (CILOs) in General and Transferable Skills	Teaching strategies/methods to be used	Methods of assessment		
After o	completing this course, students will be able to:	Dialogue and discussion	Achievement file		
d1-	Work effectively as a member of a teamwork in the delivery of services to community	Cooperative learning and working	 Evaluation of reports 		
d2-	Use new technology and have access to internet veterinary web sites and retrieve information	groups Scientific trips Research costs and projects Self-education Demo and practical presentations Problem Solving	 Evaluating student presentations. Note the performance. Practical tests. (Lab Test) 		

IV. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	-Reading Syllabus & Knowing each other -Etiquette and ethics of the profession of Veterinary Medicine	a1, d1, d2		1	2
2	Signs & Changes of Death	a1, a2, b1,b2, c1, c2	Differences between hypostasis and contusions	1	2
3	Causes of Death	a1, a2, b1,b2, c1, c2	-Identification of used instruments in firearm wound	2	4

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Quality Assurance Unit Dr. Abdulrageb Alshami

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			-How to differentiate Automortem and Postmortem		
			-Death due to different causes		
4	Wounds, Burns, & Head Injuries, Choke	a1, a2, b1,b2, c1, c2	-Classification of Wounds -Frostbite -Types of chokes	1	2
6	Asphyxial Death & Drowning	a1, a2, b1,b2, c1, c2	-Diagnosis (external & Postmortem examination - Stages of Asphyxia	1	2
7	Blood & Semen Stain Examinations Pregnancy, Abortion and Sexual Offences	a1, a2, b1,b2, c1, c2	Bestiality	1	2
8	Forensic Toxicology Medico-legal Report	a1, a2, b1,b2, c1, c2	-Medico-legal important of teeth examination	1	2
9	Concepts of General Toxicology	a1, a2, b1,b2, c1, c2		1	2
10	-Toxic Gases and Corrosives -Biotoxins (Mycotoxins, Zoo toxins, Bacterial Toxins) -Metallic Toxicity	a1, a2, b1,b2, c1, c2	-Chronic Toxicity of Lead -Clinical Picture -Mercury Toxicity -Arsenic Toxicity	2	4
11	Pesticides, Insecticides, Rodenticides, Fungicides, Herpicides	a1, a2, b1,b2, c1, c2		1	2
12	-Food Poisoning -Plant Poisoning -Animal Poisoning	a1, a2, b1,b2, c1, c2	-Poisonous Plants -Salmonellosis, Clostridium -Snake Venom, Scorpion sting, Toads	1	2
13	-Irritant Toxicants -Drugs & Feed Toxicants	a1, a2, b1,b2, c1, c2	Classification of poisons	1	2
	Number of We	eks /and Units Per Seme	ster	14	29

b- Training Aspect:

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Quality Assurance Unit Dr. Abdulrageb Alshami

Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany Academic Development Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Reading Syllabus & Laboratory Tour	a1, a2, b1,b2, c1, c2	1	2
2	Safety Tests in Toxicology	a1, a2, b1,b2, c1, c2	1	2
3	Hair Examination (Human, Animal, Rat)	a1, a2, b1,b2, c1, c2	1	2
4	Preparation of hair sampling of different animals	a1, a2, b1,b2, c1, c2	1	2
5	Firearm Wound	a1, a2, b1,b2, c1, c2	1	2
6	Identification of Blood Stains (Chemical Examination) (Preliminary, Gniacum Test, Kastle Mayer Test, Lauco-Malachite Green Test)	a1, a2, b1,b2, c1, c2	2	4
7	Identification of Blood Stains Cont. (Confirmatory Test) Lachman Test, Takayama Test (hemochromogen), Spectro scopical examination, serological test, Blood fill test	a1, a2, b1,b2, c1, c2	1	2
8	Detection of Metallic Toxicity	a1, a2, b1,b2, c1, c2	1	2
9	Quantitative detection of Aflatoxin	a1, a2, b1,b2, c1, c2	1	2
10	Identification of Plant Poisons (Fruits, seeds, roots)	a1, b1, b2, c2	1	2
11	Detection of Pesticide Poisons	b1, b2, c1, c2	1	2
12	Detection of Metallic Toxins Using of Stomach Tube (Stomach tube of large animal, rat, & mice)	a1, a2, b1,b2, c1, c2	2	4
	Number of Weeks /and Units Pe	er Semester	14	28

V. Teaching strategies of the course:

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Quality Assurance Unit Dr. Abdulrageb Alshami

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- Lectures
- Group discussions
- Literature Review
- Brainstorming
- Practical Seminars
- Individual assignments

3-Assessment Methods:

• The written test

■ Short tests (Quizzes)

Oral tests

Evaluation of reports

Assignments (Homeworks)

Projects

Presentations

Grading Scale:

Grades are awarded on a scale from A to F, where A is the best grade (91-100) and F is a fail (<65).

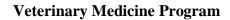
V	VI. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)	
1	Participation and quizzes and Assignments	2-14	10	10%	a-d	
2	Mid-semester exam	8	10	10%	a-d	

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3	Mid-Term Practical Exam	8	10	10%	a-d
4	Final Practical Exam	16	10	10%	a-d
5	Final Oral Exam	16	5	5%	a-d
6	Final Written Exam	16	55	55%	a-d
	Total		100	100%	

VII. Students' Support:	
Office Hours/week	Other Procedures (if any)
Saturday-Wednesday from 8:00 a.m2 p.m.	Student can contact me via email

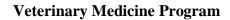
VIII.	VIII. Learning Resource (MLA style or APA style)S:					
1-	1- Required Textbook(s) (maximum two)					
	 Text book of Forensic Medicine and Toxicology by V.V. Pillay, 15th Edition, Paras Medical Publishing, Hyderabad. 					
	2. Fundamentals of Forensic Medicine and Toxicology by R. Basu, PublishersBooks and Allied (P) Ltd, Kolkata.					
	3. Guharaj Forensic Medicine, 2nd Edition by P.V. Guharaj, Edited by M.R. Chandran, Orient Longman, Hyderabad.					
2-	Recommended Readings and Reference Materials					
	1-					
3-	Essential References					
4-	Electronic Materials and Web Sites etc.					
	PubMed https://www.ncbi.nlm.nih.gov/pubmed/					
	Students are free to search online for any available course materials related to the course subjects and taught lectures in the class.					

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Quality Assurance Unit Dr. Abdulrageb Alshami

Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany Academic Development Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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5-	Other Learning Material:
	-

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Χ.	Course Policies:
1	Class Attendance:
	MANDATORY TO ATTEND ALL COURSE LECTURES AND LABS
2	Tardiness:
	Not allowed at all. Students must be in class or in the practical session 10 minutes prior to the
	beginning of lectures or practical session
3	Exam Attendance/Punctuality:
	Attendance is mandatory; absence is accepted with valid excuse. Students must be on time; tardiness is not
	permissible.
4	Assignments & Projects:
	All assignments and projects are to be submitted on their due date. Any assignment turned in after the due
_	date will not be accepted without valid and reasonable excuse
5	Cheating:
	Not tolerated and may lead to EXPELLING the student from the program
6	Plagiarism:
	Not tolerated AT ALL and may lead to EXPELLING the student from the program
7	Other policies:
	1. All devices must be on silent or at least on vibration during lectures/labs
	2. Before any exam (written, oral) student's identity will be checked (student's card, ID,
	passport). Without any of these documents, the student will not be allowed in the exam
	room.
	3. Any of type/ form of cheating is not allowed no matter what.
	4. Maintain silence during lectures/exam and disturbance is not allowed. For any questions
	students should raise their hand and wait for permission to talk.
	The state of the s

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Veterinary Medicine Program









Course Plan of Toxicology and Forensic Medicine

X Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Hussein Abdulhadi Al-Wadei			Office	Hours		
Location & Telephone No.	Faculty of Veterinary Medicine Building	SAT	SUN	MON	TUE	WED	THU
E-mail	haalwadei@gmail.com	8am 2pm	8am 2pm	8am 2pm	8am 2pm	8am 2pm	

KI. ((I. Course Identification and General Information:						
1-	Course Title:	Toxicology and Forensic Medicine					
2-	Course Number & Code:	IM463					
			C.I	H		Total	
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	1 otai	
		2	-	1	-	3	
4-	Study level/year at which this course is offered:	Second Semester of Fourth Year					
5-	Pre -requisite (if any):		ANT232	, ANT234	, PH345		
6-	Co –requisite (if any):	None					
7-	Program (s) in which the course is offered	Veterinary Medicine					
8-	Language of teaching the course:			English			
9-	System of Study:	Regular / Semester					
10-	Mode of delivery:	Lectures and Practical					
11-	Location of teaching the course:	Faculty of Veterinary Medicine Building					
11	U Course Description:						

II. Course Description:

Forensic Medicine deals with the techniques applied in medical science for the purpose of law and Toxicology is about detecting and isolating of symptoms produced by a poison or toxin on living being (human, animal, etc.). Forensic Medicine will teach students how to define death and identify its types, determining the early and late stages of death and an in-depth study of a variety causing deaths such as

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homicide, malnutrition, diseases, starvation and accidents.

In toxicology, the students are familiarized with the general characteristics of various poisons, the toxic principle present in them, their mechanism of action, their fatal period and fatal dose, the signs and symptoms associated with each poison, the post-mortem appearances associated with them, their medicolegal aspects, and lastly their isolation and detection techniques.

II. Intended learning outcomes (ILOs) of the course:

After completing this course, students will be able to:

- a1- Identify the types and sources of toxicants polluting the animal, avian and aquatic environments and the diseases caused by them and to understand the methods of animal identification, possible causes of death
- a2- Have knowledge and an understanding of how to interpret from clinical signs, laboratory diagnosis, and history, the final diagnosis of forensic and toxicological problems and adapt the proper treatment for such cases.
- b1- Identify and examine risk factors, advantages and disadvantages of different epidemiological examinations. and to analyze the clinical evidence relevant to toxicological diseases.
- b2- Choose and apply appropriate quantitative and qualitative methodologies requested for laboratory diagnosis.
- c1- Collect, preserve and transport of AM and PM samples, performing standard practical laboratory techniques, interpreting laboratory results
- c2- Interpret forensic and toxicological data and solving forensic-based problems
- d1- Work effectively as a member of a teamwork in the delivery of services to community
- d2- Use new technology and have access to internet veterinary web sites and retrieve information

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V. Course Content:

A – Theoretical Aspect:

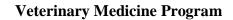
7			
Order	Topics List	Week Due	Contact Hours
1	-Reading Syllabus & Knowing each other -Etiquette and ethics of the profession of Veterinary Medicine	1	2
2	Signs & Changes of Death	2	2
3	Causes of Death	3	2
4	Wounds, Burns, & Head Injuries, Choke	4	2
5	Exam 1 Fire-arm Injuries	5	2
6	Asphyxial Death & Drowning	6	2
7	Blood & Semen Stain Examinations Pregnancy, Abortion and Sexual Offences (bestiality)	7	2
8	Midterm Exam	8	2
9	Forensic Toxicology	9	2
10	Medico-legal Report	10	2
11	Concepts of General Toxicology	11	2
12	Pesticides, Insecticides, Rodenticides, Fungicides, Herpicides	12	2
13	-Food Poisoning -Plant Poisoning -Animal Poisoning	13	2
14	-Irritant Toxicants -Drugs & Feed Toxicants	14	2
15	-Toxic Gases and Corrosives -Biotoxins (Mycotoxins, Zoo toxins, Bacterial Toxins) -Metallic Toxicity	15	2
16	Final Exam	16	2

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Number of Weeks /and Units Per Semester	16	32
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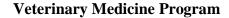
	b- Training Aspect:		
Order	Training Tasks	Week Due	Contact hours
1	Reading Syllabus & Laboratory Tour	1	2
2	Safety Tests in Toxicology	2	2
3	Hair Examination (Human, Animal, Rat)	3	2
4	Preparation of hair sampling of different animals	4	2
5	Firearm Wound	5	2
6	Identification of Blood Stains (Chemical Examination)	6,7	4
7	Midterm Exam	8	2
8	Identification of Blood Stains Cont. (Confirmatory Test)	9	2
9	Detection of Metallic Toxicity	10	2
10	Quantitative detection of Aflatoxin	11	2
11	Identification of Plant Poisons (fruits, seeds, roots)	12	2
12	Detection of Pesticide Poisons	13	2
13	Detection of Metallic Toxins	14	2
14	Using of Stomach Tube (Stomach tube of large animal, rat, & mice)	15	2
15	Final Exam	16	2
	Number of Weeks /and Units Per Semester	16	32

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V. Teaching strategies of the course:

- Lectures
- Group discussions
- Literature Review
- Brainstorming
- Practical Seminars
- Individual accionments

/I. Assessment Methods:

The written to	est

- Short tests (Quizzes)
- Oral tests
- Evaluation of reports
- Assignments (Homeworks)
- Projects
- Presentations

Grading Scale:

Grades are awarded on a scale from A to F, where A is the best grade (91-100) and F is a fail (<65).

N.B.:

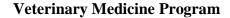
- 1. Any student who pass the 25% of the class attendance will not be allowed for the final exam.
- 2. Students are advised to study hard in the class during the semester.
- 3. Retaking an exam is not allowed without valid excuse.

Prepared by Dr. Hussein Al-Wadei

Quality Assurance Unit Dr. Abdulraqeb Alshami

Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany Academic Development Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

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No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation and quizzes and Assignments	2-14	10	10%
2	Mid-semester exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	16	10	10%
5	Final Oral Exam	16	5	5%
6	Final Written Exam	16	55	55%
	Total		100	100%

II. Learning Resources:

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1- Required Textbook(s) (maximum two).

- 1. Textbook of Forensic Medicine and Toxicology by V.V. Pillay, 15th Edition, Paras Medical Publishing, Hyderabad.
- 2. Fundamentals of Forensic Medicine and Toxicology by R. Basu, PublishersBooks and Allied (P) Ltd, Kolkata.
- 3. Guharaj Forensic Medicine, 2nd Edition by P.V. Guharaj, Edited by M.R. Chandran, Orient Longman, Hyderabad

2- Essential References.

3- Electronic Materials and Web Sites etc.

Students are free to search online on any topic taught in class and then advise to come to discuss with class instructor to be on the same page.

II. Course Policies:

Class Attendance:

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Quality Assurance Unit Dr. Abdulrageb Alshami

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	MANDATORY TO ATTEND ALL COURSE LECTURES		
2	Tardy:		
	Not allowed at all. Students must be in class 10 minutes prior to the beginning of lectures		
3	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse. Students must be on time, tardiness is not permissible.		
4	Assignments & Projects: All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse.		
5	Cheating: Not tolerated and may lead to EXPELLING the student from the program		
6	Plagiarism: Not tolerated AT ALL and may lead to EXPELLING the student from the program		
7	 Other policies: All devices must be on silent or at least on vibration during lectures/labs. Before any exam (written, practical, oral) student's identity will be checked (student's card, ID, passport). Without any of these documents, the student will not be allowed in the exam room. Any of type/ form of cheating is not allowed no matter what. Maintain silence during lectures and disturbance is not allowed. 		

Prepared by Dr. Hussein Al-Wadei

Quality Assurance Unit Dr. Abdulrageb Alshami

Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany