Faculty Of Veterinary Medicine

Veterinary Medicine Program









Course Specification of Epidemiology and Public Health

I.	I. Course Identification and General Information:							
1	Course Title:	Eŗ	oidemiology	and Public I	Health			
2	Course Number & Code:	IM461						
		C.H Total						
3	Credit hours:	Theoretical	Practical	Training	Seminar	Total		
		2	1	0	0	3		
4	Study level/ semester at which this course is offered:	First Semester of Fourth Year						
5	Pre –requisite (if any):		MI353, M	II355, MI35	7			
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. Hı	ıssein Abdul	hadi Nasser	Al-Wadei			
11	Date of approval:							

II. Course description:

Epidemiology is the basic science of public health which introduces the basic principles and methods with an emphasis on the critical thinking analytical skills and application to clinical practice and research. This course gives students a foundation in the basic concepts of epidemiology. Students will gain knowledge in the distribution and causes of health and disease in different human population. Students will also be able to apply the methods to improve disease outcomes. The course will discuss and cover the biological, behavioral, sociocultural and environmental factors associated with the etiology and distribution of health and disease.

Prepared by Dr. Hussein Al-Wadei

Quality Assurance Unit Dr. Abdulrageb Alshami

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

Faculty Of Veterinary Medicine

Veterinary Medicine Program

Dr. Hussein Al-Wadei









III. Intended learning outcomes (ILOs) of the course:				
(A) Knowledge and Understanding:				
Al	ignment of Course Intended Learning Outcomes (CILOs) to I	_	m Intended Learning Outcomes (l nding.	PILOs) in: Knowledge and
Pı	rogram Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding		Course Intended Learning Knowledge and	
After	completing this program, students will be able to:	Afte	completing this course, stude	nts will be able to:
A3-	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-	_	is and confounding in I to understand the concepts in a range of health and other
A4-	Describes the foundations and procedural steps for treating all diseases that affect different animals, highlighting the medical conditions that need surgical interventions.	used to examine the health status of a population and		
	Teaching And Assessment Metho	ods I	For Achieving Learnin	ng Outcomes:
	Alignment of Learning Outcomes of Knowledge a	nd Ur		
Cou	rse Intended Learning Outcomes (CILOs) in		Teaching	Methods of assessment
	Knowledge and Understanding	st	rategies/methods to be used	
comp	leting this course, students will be able to:	• L	ectures	• The written test
A1-	Identify the impact of bias and confounding in epidemiologic studies and to understand the	• D	Pialogue and discussion	(Monthly, Midterm, Final)
	concepts of screening and testing in a range of health and other settings.		ractical application (Labs)	 Short tests (Quizzes) Oral tests
A2-	Explain the variety of epidemiologic study designs used to examine the health status of a population and be able to evaluate the	• S	cientific trips	 Practical tests (Lab Test)
	Prepared by Quality Assurance Unit		Dean of the Faculty	Academic Development

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

Center & Quality

Assurance Ass. Prof. Dr. Huda Al-Emad

Ass. Prof. Dr. Abdu Alraoof

Al-Shawkany

Dr. Abdulraqeb Alshami

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strengths and limitations of each	Field and clinical training	Evaluation of repor
	Simulation and demos	Assignments (Homeworks)
	Brainstorming	Projects
	Self education	 Presentations

(B) Intellectual Skills:					
Alignr	ment of Course Intended Learning Outcomes (CILOs) to Prog	ram In	tended Learning Outcomes (PIL	Os) in: Intellectual skills	
Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skills Course Intended Learning Outcomes (CILOs) of Intellectual Skills					
After completing this program, students will be able to: After completing this course, students will be able to:			ents will be able 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-	Evaluate the strengths are epidemiologic reports	nd limitations of	
B4-	Determines the appropriate and effective treatment; evaluates all medications used for each condition.	b2-	b2- Combine appropriate epidemiological concepts and statistical methods and outline epidemiological measures of disease occurrence, calculate basic measures and describe patterns of disease occurrence.		
	Teaching And Assessment Method	s For	Achieving Learning	Outcomes:	
	ment of Learning Outcomes of Intellectual Skills t	o Teac	ching Methods and Assess	sment Methods:	
Course Intended Learning Outcomes (CILOs) in Intellectual Skills.			ching strategies/methods to be used	Methods of assessment	
After	completing this course, students will be able to:	• D	ialogue and discussion	• The written test	
b1-	Evaluate the strengths and limitations of epidemiologic reports				

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b2-	Combine appropriate epidemiological concepts and statistical methods and outline	• Lectures	• Oral tests
	epidemiological measures of disease occurrence, calculate basic measures and	 Practical application (Labs) 	• Practical tests
	describe patterns of disease occurrence.	Problem Solving	• Note the performance
		 Cooperative learning and working groups 	• Achievement file (Accomplishments)
		• Scientific trips	• Evaluation of
		Field and clinical training	reports
		Simulation and demos	 Evaluating student presentations
		 Research costs and projects 	

(C)	(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 Skil					
After completing this program, students will be able to:			After completing this course, 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-	Apply theories, concepts, methods, and tools of public health data collection, analysis and interpretation that are essential to public health practice		
C2-	Practices practical, diagnostic, clinical and research skills, including the collection of samples in various fields of veterinary medicine and related sciences, in a safe and effective manner, considering the	c2-	Express of routine sources of data used in descriptive epidemiology, and appreciate their strengths and limitations		

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	ethics of the profession.			
Teac	ching And Assessment Methods For Achievir	ng Lear	rning Outcomes:	
·	ment of Learning Outcomes of Professional and Practical S	Skills to		
(Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	Teaching strategies/methods to be used		Methods of assessment
After	completing this course, students will be able to:		ctical application abs)	Practical tests
c1-	Apply theories, concepts, methods, and tools of public health data collection, analysis and interpretation that are essential to public health	• Pro	blem Solving	Note the performance
c2-	practice Express of routine sources of data used in		operative learning d working groups	• The written test
	descriptive epidemiology, and appreciate their strengths and limitations	• Sci	entific trips	Oral tests
		• Cas	se Study	Achievement file
			ld and clinical ining	• Evaluation of reports
			nulation and actical presentations	Evaluating student presentations
			search costs and ojects	

(D) General / Transferable Skills:		
Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills		
Program Intended Learning Outcomes (PILOs) in Course Intended Learning Outcomes (CILOs) in		
General / Transferable skills General / Transferable skills		
After completing this program, students will be able to:	After completing this course, students will be able to:	

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D1-	Communicates effectively with other fellow professions and animal owners and expresses his ideas clearly and objectively. Develops his scientific, professional, research capabilities on his own, and follows what is	d1-	and professional audiences		
	emerging in his field of specialization, including computer applications and information and communication technology.				
	ching And Assessment Methods For Achi		0		
	Alignment of Learning Outcomes of General and Tra				
	urse Intended Learning Outcomes (CILOs) in General and Transferable Skills	Tea	ching strategies/methods to be used	Methods of assessment	
After c	completing this course, students will be able to:	• [Dialogue and discussion	Achievement file	
d1-	Communicate epidemiologic information to lay and professional audiences		Cooperative learning and working groups	• Evaluation of reports	
d2-	Apply key ethical issues to the conduct of epidemiological and other scientific	• 5	cientific trips	 Evaluating student presentations. 	
	investigations		Research costs and projects	Note the performance.	
		• S	elf education	 Practical tests. (Lab Test) 	
			Demo and practical presentations	,	
		• F	Problem Solving		

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1 – Course Topics/Items:

a – Theoretical Aspect

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Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Syllabus Reading & Knowing each other Historical Development - Basic principles of Epidemiology	a1, a2, b1, b2, c1, c2	Methods of Epidemiology Different mode of transmission of infection	1	2
2	General Health and Population Indicators - Measures of morbidity & mortality	a1, a2, b1, b2, c1, c2	Patterns of disease occurrence, animals at risk, mortality rate and case fatality	1	2
3	Infectious Disease Epidemiology	a1, a2, b1, b2, c1, c2	Cause of disease, epidemic, incubation period, endemic, pandemic, susceptibility, types of contact	1	2
4	a. Cross-Sectional & Ecologic studies b. Data Sources & Secondary Analyses	a1, a2, b1, b2, c1, c2	Ways by which air-borne pathogens can arrive to animal bodies, carriers, infestation, reservoir, vectors, incidence, prevalence	2	4
5	Exam 1 Cohort Studies	a1, a2, b1, b2, c1, c2	Continuity of infectious disease Controls, specificity and sensitivity	1	2
6	Hypothesis Testing & Significance	a1, a2, b1, b2, c1, c2	Precautionary measures which should be taken by Vet authorities for competing infectious and contagious diseases.	1	2
7	Selection and Information Bias & Confounding	a1, a2, b1, b2, c1, c2		1	2
8	Causation & Risk	a1, a2, b1, b2, c1, c2	Burial is a practical method of a proper disposal way of a carcasses of animals dies of contagious diseases.	1	2

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9	Sampling Strategies & Descriptive Studies (Ecological, Cross Sectional, and Qualitative)	a1, a2, b1, b2, c1, c2	Records and its contents which advise to keep in a farm to get useful information about animals in the farm	1	2
10	Case Control & Nested Case Control Studies	a1, a2, b1, b2, c1, c2	Movements play an important role in transmission, dissemination of diseases, incineration as an efficient way of carcass disposal Quarantine regulation requirements for importation of animals for breeding purposes.	1	2
11	Intervention Studies	a1, a2, b1, b2, c1, c2		1	2
12	Screening Effect Modification - Causal inference	a1, a2, b1, b2, c1, c2	Organization of surveys, test and questionnaire, efficiency of testing Steps required to solve unepidemiological problems	1	2
13	Part I: Environmental Epi Part II: Genetic & Molecular Epi	a1, a2, b1, b2, c1, c2	Determinants associated with host agents, and environment Susceptible infestation mutation	1	2
	Number of We	eks /and Units Per Seme	ster	14	28

	b- Training Aspect:			
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Sampling	a1, a2, b1, b2, c1, c2	1	2

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2	Septum Technique for TB tests	a1, a2, b1, b2, c1, c2	1	2
3	Urine Sample Test	a1, a2, b1, b2, c1, c2	1	2
4	Faeces Sample	a1, a2, b1, b2, c1, c2	1	2
5	Blood Sample Test	a1, a2, b1, b2, c1, c2	1	2
6	Sample Collected from different diseases Abortion, actinomycosis, actinobacillosis, African horse sickness, anthrax, blue tongue, brucellosis	a1, a2, b1, b2, c1, c2	2	4
7	Chemical Analysis of Water	a1, a2, b1, b2, c1, c2	1	2
8	Examination of Water	a1, a2, b1, b2, c1, c2	1	2
9	Physical Examination of Water	a1, a2, b1, b2, c1, c2	1	2
10	Field Work 1: the Provision of Epidemiolocal Data	a1, a2, a4, b1, b3, c1, c3	1	2
11	Field Work 2: the Provision of Epidemiolocal Data	a1, a2, b1, b2, c1, c2	1	2
12	Collection of Data for Contagious Diseases Studies of disease occurrence. I: Identification of the population	a1, a2, b1, b2, c1, c2	2	4
	Number of Weeks /and Units Po	er Semester	14	28

V. Teaching strategies of the course:

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

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• 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 (<50).

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.

V	I. Schedule of Assessment Task	s for Stu	dents D	uring the Ser	nester:
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes (CILOs symbols)

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1	Participation, quizzes and assignments	2-14	10	10%	a-d
2	Mid-semester exam	8	10	10%	a-d
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.m9:00 a.m.	Students can contact me via email

VIII. Le	arning Resource (MLA style or APA style)S:
1- Reg	quired Textbook(s) (maximum two)
	 Gordis, L. (2004). <i>Epidemiology</i>. Third edition. Philadelphia: Elsevier Saunders. (The second edition is also acceptable.) Pagano, M. and Gauvreau, K. (2000). <i>Principles of Biostatistics</i>. Belmont, CA: Wadsworth.
	3. Rothman KJ. Epidemiology: An Introduction. New York, NY. Gordis L. Epidemology, 3rd Ed. Philadelphia, PA. Elsevier Saunders: 2004
2- Rec	commended Readings and Reference Materials
1	1-
3- Esse	ential References
4- Elec	ctronic Materials and Web Sites etc.
Pul	bMed https://www.ncbi.nlm.nih.gov/pubmed/

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Г		Students are free to search online for any available course materials related to the course subjects
		and taught lectures in the class.
	5-	Other Learning Material:

X.	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 and 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, 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/exam and disturbance is not allowed. For any questions students should raise their hand and wait for permission to talk.

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Course Plan of Epidemiology and Public Health

X Information about Fa	culty Member Responsi	ible fo	r the C	ourse:			
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 9am	8am 9am	8am 9am	8am 9am	8am 9am	

KI. (Course Identification and General Informati	ion:				
1-	Course Title:		Epidemiolog	gy and Pul	olic Healtl	ı
2-	Course Number & Code:			IM461		
			C.I	Н		Total
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	Total
		2	-	1	-	3
4-	Study level/year at which this course is offered:		First Seme	ester of Fo	urth Year	
5-	Pre -requisite (if any):		MI353	, MI355, I	MI357	
6-	Co –requisite (if any):			None		
7-	Program (s) in which the course is offered		Veteri	nary Med	icine	
8-	Language of teaching the course:			English		
9-	System of Study:		Regu	lar / Seme	ster	
10-	Mode of delivery:		Lectur	res & Prac	tical	
11-	Location of teaching the course:	Fac	ulty of Veter	rinary Med	licine Bui	lding

II. Course Description:

Epidemiology is the basic science of public health which introduces the basic principles and methods with an emphasis on the critical thinking analytical skills and application to clinical practice and research. This course gives students a foundation in the basic concepts of epidemiology. Students will gain knowledge in

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the distribution and causes of health and disease in different human population. Students will also be able to apply the methods to improve disease outcomes. The course will discuss and cover the biological, behavioral, sociocultural and environmental factors associated with the etiology and distribution of health and disease.

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

After completing this course, students will be able to:

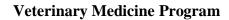
- a1- Identify the impact of bias and confounding in epidemiologic studies and to understand the concepts of screening and testing in a range of health and other settings.
- a2- Explain the variety of epidemiologic study designs used to examine the health status of a population and be able to evaluate the strengths and limitations of eachgenetics); and to apply epidemiologic methods to current public health issues.
- b1- Evaluate the strengths and limitations of epidemiologic reports
- b2- Combine appropriate epidemiological concepts and statistical methods and outline epidemiological measures of disease occurrence, calculate basic measures and describe patterns of disease occurrence.
- c1- Apply theories, concepts, methods, and tools of public health data collection, analysis and interpretation that are essential to public health practice
- c2- Express of routine sources of data used in descriptive epidemiology, and appreciate their strengths and limitations.
- d1- Communicate epidemiologic information to lay and professional audiences
- d2- Apply key ethical issues to the conduct of epidemiological and other scientific investigations

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V. Course Content:

A – Theoretical Aspect:

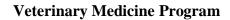
	•		
Order	Topics List	Week Due	Contact Hours
1	Syllabus Reading & Knowing each other Historical Development - Basic principles of Epidemiology	1	2
2	General Health and Population Indicators - Measures of morbidity & mortality	2	2
3	Infectious Disease Epidemiology	3	2
4	a. Cross-Sectional & Ecologic studiesb. Data Sources & Secondary Analyses	4	2
5	Exam 1 Cohort Studies	5	2
6	Hypothesis Testing & Significance	6	2
7	Selection and Information Bias & Confounding	7	2
8	Midterm Exam	8	2
9	Causation & Risk	9	2
10	Sampling Strategies & Descriptive Studies (Ecological, Cross Sectional, and Qualitative)	10	2
11	Case Control & Nested Case Control Studies	11	2
12	Intervention Studies	12	2
13	Screening	13	2
14	Part I: Environmental Epi Part II: Genetic & Molecular Epi	14	2
15	Effect Modification - Causal inference	15	2
16	Final Exam	16	2

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b- Training Aspect:							
Order	Training Tasks	Week Due	Contact hours				
1	Sampling	1	2				
2	Septum Technique for TB tests	2	2				
3	Urine Sample Test	3	2				
4	Faeces Sample	4	2				
5	Blood Sample Test	5	2				
6	Sample Collected from different diseases Abortion, actinomycosis, actinobacillosis, African horse sickness, anthrax, blue tongue, brucellosis	6,7	4				
7	Midterm Exam	8	2				
8	Chemical Analysis of Water	9	2				
9	Examination of Water	10	2				
10	Physical Examination of Water	11	2				
11	Field Work 1: the Provision of Epidemiolocal Data	12	2				
12	Field Work 2: the Provision of Epidemiolocal Data	13	2				
13	Collection of Data for Contagious Diseases Studies of disease occurrence. I: Identification of the population	14,15	4				
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

/I. Assessment Methods:

• The written test

■ Short tests (Quizzes)

Oral tests

Grading of each laboratory report

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 (<50)

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.

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No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, 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:

•

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

- 1. Gordis, L. (2004). *Epidemiology*. Third edition. Philadelphia: Elsevier Saunders. (The second edition is also acceptable.)
- 2. Pagano, M. and Gauvreau, K. (2000). *Principles of Biostatistics*. Belmont, CA: Wadsworth.
- 3. Rothman KJ. Epidemiology: An Introduction. New York, NY. Gordis L. Epidemology, 3rd Ed. Philadelphia, PA. Elsevier Saunders: 2004

2- Essential References.

3- Electronic Materials and Web Sites etc.

PubMed https://www.ncbi.nlm.nih.gov/pubmed/

I. Course Policies:

1 Class Attendance:

MANDATORY TO ATTEND ALL COURSE LECTURES

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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 and				
	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. 				
	2. 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.				
	4. Maintain silence during lectures and disturbance is not allowed.				

Prepared by Dr. Hussein Al-Wadei

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