Course Specification of Infectious Diseases (1)

I.	Course Identification and General Information:					
1	**Course Title:**	Infectious Diseases (1)				
2	**Course Number & Code:**	IM462				
3	**Credit hours:**	**C.H**				**Total**
		Theoretical	**Practical**	**Training**	**Seminar**	
		2	1	-	-	3
4	**Study level/ semester at which this course is offered:**	Fourth Year - Second Semester				
5	**Pre –requisite (if any):**	IM461				
6	**Co –requisite (if any):**	None				
7	**Program (s) in which the course is offered:**	Bachelor of Veterinary Medicine				
8	**Language of teaching the course:**	English language				
9	**Location of teaching the course:**	Faculty of Veterinary Medicine Building				
10	**Prepared by:**	Dr. Abdulraqeb Ali Alshami				
11	**Date of approval:**					

II. Course description:

The course intends to familiarize the students with particular means of identification, as well as general principles of diagnosis of infectious diseases of the most important species of mammals; it reviews the etiology, epidemiology, pathogenesis, clinical signs, pathological changes, major measures for prophylaxis and control.

The practical training intends to habituate clinical examination and diagnosis techniques in some major infectious diseases to establish an unequivocal diagnosis (correlated with epidemiology, gross pathology and laboratory) and decision making and implementation of the best control measures.

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

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

III. Intended learning outcomes (ILOs) of the course:
(A) Knowledge and Understanding:
Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Knowledge and Understanding.**

Program Intended Learning Outcomes (Sub-PILOs) in: **Knowledge and Understanding**		**Course Intended Learning Outcomes (CILOs) in:** **Knowledge and Understanding**	
After completing this program, students will be able to:		After completing this course, students will be able to:	
A2-	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.	**a1-**	Demonstrate the effect of various disease agents on the productivity of animals and recall diagnosis, management, therapeutic and prevention strategy decisions against diseases.
A3-	Identifies various causes of animal diseases, animal epidemics and how they can be diagnosed; including common and life-threatening diseases of animals, poultry and fish.	**a2-**	Describe the etiology, source, reservoir and mode of transmission of bacterial diseases of animal species (cattle, sheep, goats, equine, camels and small animals) and describe the diagnostic methodology.

Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment of Learning Outcomes of Knowledge and Understanding to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in Knowledge and Understanding		**Teaching strategies/methods to be used**	**Methods of assessment**
completing this course, students will be able to:		-Lectures using board, data shows and multimedia aids. - brainstorm. - discussion. -Self-learning by preparing essay and presentations (computer and faculty library) -Practical training (Clinical demonstrations, practice of	-Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
a1-	Demonstrate the effect of various disease agents on the productivity of animals and recall diagnosis, management, therapeutic and prevention strategy decisions against diseases.		
a2-	Describe the etiology, source, reservoir and mode of transmission of bacterial diseases of animal species (cattle, sheep, goats, equine, camels and small animals) and describe the		

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

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

	diagnostic methodology.	skills, and discussions). (a) Field visits (farms and villages) (b) General experimental animal teaching (c) Clinical and small group sessions (d) Outpatient clinic (e) Equipped laboratories	

(B) Intellectual Skills:

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	
After completing this program, students will be able to:		After completing this course, students will be able to:	
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.	b1-	Create the ability to solve the clinical problems through diagnosis of infectious diseases and find solution.
B3-	Design appropriate nursing and treatment care plans for different diseases that affect animals, prioritizing treatment.	b2-	Select specific treatment and control of animal diseases.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of Intellectual Skills to Teaching Methods and Assessment Methods:

Course Intended Learning Outcomes (CILOs) in Intellectual Skills.		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		-Lectures using board, data shows and multimedia aids. - brainstorm. - discussion.	Written exam -Practical exam -Oral exam - Quizzes
b1-	Create the ability to solve the clinical problems through diagnosis of infectious diseases and find solution.		

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

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

b2-	Select specific treatment and control of animal diseases.	-Self-learning by preparing essay and presentations (computer and faculty library) -Practical training (Clinical demonstrations, practice of skills, and discussions).	- Report assignments - Discussion

(C) Professional and Practical Skills:

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		Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
C3-	Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	c1-	Generate an initial list of diagnosis based on given specific data (such as age, sex, vital signs…etc) and implement of a diagnostic plan to obtain a final diagnosis.
C4-	Treat animal patients safely and effectively considering the evaluation of the results, the appropriate modification of the treatment plan and the accurate description of the appropriate medications.	c2-	Apply of specific treatment for the diagnosed cases and writing a prescription and prepare the initial treatment for sick animals with life threatening condition.

Teaching And Assessment Methods For Achieving Learning Outcomes:		
Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:		
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:	-Practical training (Clinical	-Written exam -Practical exam

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

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

c1-	Generate an initial list of diagnosis based on given specific data (such as age, sex, vital signs…etc) and implement of a diagnostic plan to obtain a final diagnosis.	demonstrations, practice of skills, and discussions). (a) Field visits (farms and villages) (b) General experimental animal teaching (c) Clinical and small group sessions (d) Outpatient clinic (e) Equipped laboratories - Case study	-Oral exam - Quizzes - Report assignments - Discussion
c2-	Apply of specific treatment for the diagnosed cases and writing a prescription and prepare the initial treatment for sick animals with life threatening condition.		

(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 General / Transferable skills		Course Intended Learning Outcomes (CILOs) in General / Transferable skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
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.	d1-	Access websites and use new technology in veterinary extension
D4-	Works in normal conditions, crises and epidemics, alone and effectively within a medical team.	d2-	Work under pressure and / or contradictory conditions and ability to write reports and essay on the different scientific items in the field of infectious diseases.

Teaching And Assessment Methods For Achieving Learning Outcomes:

Alignment of Learning Outcomes of General and Transferable skills to Teaching and Assessment Methods:

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

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

5

Course Intended Learning Outcomes (CILOs) in General and Transferable Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		-Self-learning by preparing essay and presentations (computer and faculty library) - Scientific visits - discussions - Assignments	-Written exam -Practical exam -Oral exam - Report assignments - Discussion - Note performance
d1-	Access websites and use new technology in veterinary extension		
d2-	Work under pressure and / or contradictory conditions and ability to write reports and essay on the different scientific items in the field of infectious diseases.		

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	**Infectious Disease Epidemiology**	a1, a2, b1, b2, c1,c2	Introduction, contagious & communicable diseases Epidemiology of diseases Cause of disease, epidemic, incubation period, endemic, pandemic, sporadic diseases	1	2
			Transmission of diseases Primary & secondary factors in production of diseases Control and Eradications	1	2
2	**Diseases caused by bacteria**	a1, a2, b1, b2, c1,c2	Anthrax Diseases caused by Pasteurella spp.	1	2
			Diseases caused by Clostridium spp.	1	2
			Tuberculosis and Johns' diseases	1	2
			Actinomycosis and	1	2

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

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

			Actinobacillosis Brucellosis		
			Salmonellosis	1	2
			Colibacillosis Mastitis	1	2
			Diseases caused by Mycoplasma spp. Listeriosis	1	2
			Leptospirosis Foot rot	1	2
			Glanders Strangles Ulcerative lymphangitis	1	2
			Contagious bovine pyelonephritis Caseous lymphadenitis in sheep Oral and laryngeal necrobacillosis	1	2
			Diseases caused by Haemophilus and Morexella spp.	1	2
3	**Revision**	a1, a2, b1, b2, c1,c2	Revision	1	2
Number of Weeks /and Units Per Semester				**14**	**28**

b- Training Aspect:				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Collection of samples and diagnostic aids	a1, a2, b1, b2, c1,c2	1	2
2	Blood, Fecal and Milk examination	a1, a2, b1, b2, c1,c2	2	4
3	Diagnosis of Bacterial Diseases (Samples & Sampling Procedure)	a1, a2, b1, b2, c1,c2	2	4
4	Allergic Tests	a1, a2, b1, b2, c1,c2	1	2
5	Field Tuberculin Test in Dairy Cattle	a1, a2, b1, b2, c1,c2	1	2

Prepared by
Dr. Abdulraqeb Alshami

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

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

6	Practical training on detection of Mastitis Pathogens in samples of intramammary secretions and practical training on diagnosis of subclinical Mastitis of Dairy Animals	a1, a2, b1, b2, c1,c2	1	2
7	Diagnosis of Infectious Skin Diseases of Domesticated Animals	a1, a2, b1, b2, c1,c2	1	2
8	Clinic and paraclinic diagnosis of infectious diseases in field animals, treatment, and evaluation of the effect of therapy. Veterinary control measures in animals breeding units.	a1, a2, b1, b2, c1,c2	5	10
Number of Weeks /and Units Per Semester			14	28

V. Teaching strategies of the course:

- Lectures using board, data shows and multimedia aids.

- Self-learning by preparing essay and presentations (computer and faculty library)

- Brainstorm

- Discussion

- Cooperative learning

- Practical training (Clinical demonstrations, practice of skills, and discussions).

  (a) Field visits (farms and villages)

  (b) General experimental animal teaching

  (c) Clinical and small group sessions

  (d) Outpatient clinic

- Case study

- Tutorial classes (small group teaching)

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

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

3-Assessment Methods:

-Written exam
-Practical exam
-Oral exam
-Quizzes
- Report assignments
- Discussion

Grading Scale:
Grades are awarded on a scale from A to F, where A is the best grade(90-100) and F is a fail (<50).

I. 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, quizzes and assignments	2-14	10	10%	a1, a2, b1, b2, c1,c2
2	Mid-Term Exam	8	10	10%	a1, a2, b1, b2, c1,c2
3	Mid-Term Practical Exam	8	10	10%	a1, a2, b1, b2, c1,c2
4	Final Practical Exam	15	10	10%	a1, a2, b1, b2, c1,c2
5	Oral Exam	16	5	5%	a1, a2, b1, b2, c1,c2
6	Final Exam	16	55	55%	a1, a2, b1, b2, c1,c2
	Total		**100**	**100%**	

II. Students' Support:

Office Hours/week	Other Procedures (if any)

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

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

Saturday-Wednesday from 8:00 a.m.-2 p.m.	Student can contact me via email

III. Learning Resource (MLA style or APA style)S:

1- Required Textbook(s) (maximum two)

- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, London.

- Infectious Tropical Diseases of Momestic Animals by Losses, G.

- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

2- Recommended Readings and Reference Materials

- Infectious Tropical Diseases of Momestic Animals by Losses, G.

- Veterinary Epidemiology - An Introducion BY Dirk U. Pfeifer 2002

- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, London.

- Color atlas of diseases and disorders in catle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed

- Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.

3- Essential References

4- Electronic Materials and Web Sites *etc*.

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

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

- electronic course (Infectious diseases)@ www.zu.edu.eg
- www.pubmed.com
- www.sciencedirect.com
- American Vet.clinic small and larg.com
- journal of Infectious diseases

5- Other Learning Material:

-

X.	Course Policies:
1	**Class Attendance:** **MANDATORY TO ATTEND ALL COURSE LECTURES**
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
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) we must check student's identity (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.

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

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

Course Plan of Infectious Diseases (1)

X. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Abdulraqeb Ali Alshami	**Office Hours**					
Location & Telephone No.	Sana'a Governorate 778466544	**SAT**	**SUN**	**MON**	**TUE**	**WED**	**THU**
E-mail	**Alshami.vet@gmail.com**	8am 2pm	8am 2pm	8am 2pm	8am 2pm	8am 2pm	

XI. Course Identification and General Information:						
1-	**Course Title:**	Infectious Diseases (1)				
2-	**Course Number & Code:**	IM462				
3-	**Credit hours:**	**C.H**				**Total**
		Th.	**Seminar**	**Pr.**	**F. Tr.**	
		2	-	1	-	3
4-	**Study level/year at which this course is offered:**	Fourth Year - Second Semester				
5-	**Pre –requisite (if any):**	IM461				
6-	**Co –requisite (if any):**	None				
7-	**Program (s) in which the course is offered**	Bachelor of Veterinary Medicine				
8-	**Language of teaching the course:**	English language				
9-	**System of Study:**	Regular / Semesters				
10-	**Mode of delivery:**	Lectures and Practical				
11-	**Location of teaching the course:**	Faculty of Veterinary Medicine Building				

II. Course Description:
The course intends to familiarize the students with particular means of identification, as well as general principles of diagnosis of infectious diseases of the most important species of mammals; it reviews the

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

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

etiology, epidemiology, pathogenesis, clinical signs, pathological changes, major measures for prophylaxis and control.

The practical training intends to habituate clinical examination and diagnosis techniques in some major infectious diseases to establish an unequivocal diagnosis (correlated with epidemiology, gross pathology and laboratory) and decision making and implementation of the best control measures

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

After completing this course, students will be able to:

a1- Demonstrate the effect of various disease agents on the productivity of animals and recall diagnosis, management, therapeutic and prevention strategy decisions against diseases.

a2- Describe the etiology, source, reservoir and mode of transmission of viral, bacterial, parasitic and fungi diseases of animal species (cattle, sheep, goats, equine, camels and small animals) and describe the diagnostic methodology.

b1- Create the ability to solve the clinical problems through diagnosis of infectious diseases and find solution.

b2- Select specific treatment and control of animal diseases.

c1- Generate an initial list of diagnosis based on given specific data (such as age, sex, vital signs…etc) and implement of a diagnostic plan to obtain a final diagnosis.

c2- Apply of specific treatment for the diagnosed cases and writing a prescription and prepare the initial treatment for sick animals with life threatening condition.

d1- Access websites and use new technology in veterinary extension

d2- Work under pressure and / or contradictory conditions and ability to write reports and essay on the different scientific items in the field of infectious diseases.

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

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

V. Course Content:			

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	**Infectious Disease Epidemiology:** Introduction, contagious & communicable diseases Epidemiology of diseases Cause of disease, epidemic, incubation period, endemic, pandemic, sporadic diseases Transmission of diseases Primary & secondary factors in production of diseases Control and Eradications	1,2	4
2	**Diseases caused by bacteria:**		
3	Anthrax Diseases caused by Pasteurella spp.	3	2
4	Diseases caused by Clostridium spp.	4	2
5	Tuberculosis and Johns' diseases	5	2
6	Actinomycosis and Actinobacillosis Brucellosis	6	2
7	Salmonellosis	6	2
8	**Mid-Term Exam**	8	2
9	Colibacillosis Mastitis	9	2
10	Diseases caused by Mycoplasma spp. Listeriosis	10	2
11	Leptospirosis Foot rot	11	2
12	Glanders Strangles Ulcerative lymphangitis	12	2

Prepared by
Dr. Abdulraqeb Alshami

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

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

13	Contagious bovine pyelonephritis Caseous lymphadenitis in sheep Oral and laryngeal necrobacillosis	13	2
14	Diseases caused by Haemophilus and Morexella spp.	14	2
15	Revision	15	2
16	**Final Exam**	16	2
Number of Weeks /and Units Per Semester		**16**	**32**

b- Training Aspect:

Order	Training Tasks	Week Due	Contact hours
1	Collection of samples and diagnostic aids	1	2
2	Blood, Fecal and Milk examination	2,3	2
3	Diagnosis of Bacterial Diseases (Samples & Sampling Procedure)	4,5	4
4	Allergic Tests	6	2
5	Field Tuberculin Test in Dairy Cattle	7	2
6	Mid-Term Exam	8	
7	Practical training on detection of Mastitis Pathogens in samples of intramammary secretions and practical training on diagnosis of subclinical Mastitis of Dairy Animals	9	2
8	Diagnosis of Infectious Skin Diseases of Domesticated Animals	10	2
9	Clinic and paraclinic diagnosis of infectious diseases in field animals, treatment, and evaluation of the effect of therapy. Veterinary control measures in animals breeding units.	11,12,13,14,15	10
10	Final Exam	16	2
Number of Weeks /and Units Per Semester		**16**	**32**

Prepared by
Dr. Abdulraqeb Alshami

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

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

V. Teaching strategies of the course:

- Lectures using board, data shows and multimedia aids.

- Self-learning by preparing essay and presentations (computer and faculty library)

- Brainstorm

- Discussion

- Cooperative learning

- Practical training (Clinical demonstrations, practice of skills, and discussions).

  (a) Field visits (farms and villages)

  (b) General experimental animal teaching

  (c) Clinical and small group sessions

  (d) Outpatient clinic

- Case study

- Tutorial classes (small group teaching)

VI. Assessment Methods:

-Written exam
-Practical exam
-Oral exam
-Quizzes
- Report assignments
- Discussion

Grading Scale:
Grades are awarded on a scale from A to F, where A is the best grade (90-100) and F is a fail (**<50**)

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

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

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation quizzes and assignments	2-14	10	10%
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	15	10	10%
5	Oral exam	16	5	5%
6	Final Exam	16	55	55%
	Total		100	100%

II. Learning Resources:

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

- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, London.

- Infectious Tropical Diseases of Momestic Animals by Losses, G.

- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

2- Essential References.

- Infectious Tropical Diseases of Momestic Animals by Losses, G.

- Veterinary Epidemiology - An Introducion BY Dirk U. Pfeifer 2002

- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed.

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

17

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

	Baillere Tindall, London.
	• Color atlas of diseases and disorders in catle by. Blowey, Roger W and Weaver, A. David 2011 3rd Ed
	• Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.

3- Electronic Materials and Web Sites *etc*.	
	• electronic course (Infectious diseases)@ www.zu.edu.eg
	• www.pubmed.com
	• www.sciencedirect.com
	• American Vet.clinic small and larg.com
	• journal of Infectious diseases

XVIII.	**Course Policies:**
1	**Class Attendance:** **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
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, 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

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

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

	exam room.
	3. Any of type/ form of cheating is not allowed no matter what.
	4. Maintain silence during lectures and disturbance is not allowed.

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

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