



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

Course Specification of Infectious Diseases

I. Course Identification and General Information:						
1	Course Title:	Infectious Diseases				
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 and birds; 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.

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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, parasitic and viral diseases of animal species (cattle, sheep, goats, equine 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:			
a1-	Demonstrate the effect of various disease agents on the productivity of animals and recall diagnosis, management, therapeutic and prevention strategy decisions against diseases.	-Lectures using board, data shows and multimedia aids. - brainstorm. - discussion. -Self-learning by preparing essay and presentations (computer and faculty library)	-Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
a2-	Describe the etiology, source, reservoir and mode of transmission of bacterial, parasitic and viral diseases of animal species (cattle, sheep, goats, equine and small animals) and describe the diagnostic methodology.	-Practical training (Clinical demonstrations, practice of skills, and discussions).	

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

		(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) in 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:			
b1-	Create the ability to solve the clinical problems through diagnosis of infectious diseases and find solution.	-Lectures using board, data shows and multimedia aids. - brainstorm. - discussion. -Self-learning by preparing essay and presentations (computer and faculty library)	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
b2-	Select specific treatment and control of animal diseases.	-Practical training (Clinical demonstrations, practice of skills, and discussions).	

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

--	--	--	--

(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:			
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.	-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 (e) Equipped laboratories	-Written exam -Practical exam -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.		

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

- Case study

(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 essays 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

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:			
d1-	Access websites and use new technology in veterinary extension	-Self-learning by preparing essay and presentations (computer and faculty library)	-Written exam -Practical exam -Oral exam - Report assignment
d2-	Work under pressure and / or contradictory conditions and ability to write reports and essays on the different scientific items in the field of infectious diseases.	- Scientific visits - discussions - Assignments	- Discussion - Note performance

IV. Course Content:

1 – Course Topics/Items:

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

a – Theoretical Aspect					
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Diseases caused by viruses	a1, a2, b1, b2, c1,c2	Rinderpest Peste des petits ruminants Foot and mouth disease Vesicular stomatitis Blue tongue	1	2
			Bovine virus diarrhea Malignant catarrhal fever Infections bovine rhinotracheitis Equine infectious anemia	1	2
			African horse sickness Equine rhinopneumonitis Equine viral arteritis Equine influenza	1	2
			Orf, Pox and Psudopox Lumpy skin disease Bovine papilloma virus Bovine ulcerative mammillitis	1	2
			Bovine ephemeral fever Rift valley fever Akabane virus disease Rabies & pseudo rabies	1	2
			Bovine spongiform encephalopathy Bovine viral leucosis Scrapie Louping-ill	1	2
			2	Diseases caused by bacteria	a1, a2, b1, b2, c1,c2
Actinomycosis and Actinobacillosis Brucellosis Salmonellosis Colibacillosis	1	2			

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

			Mastitis Diseases caused by Mycoplasma spp. Listeriosis Leptospirosis	1	2
			Foot rot Glanders Strangles Ulcerative lymphangitis	1	2
			Diseases caused by Clostridium spp. Caseous lymph adenitis in sheep	1	2
			Contagious bovine pyelonephritis Oral and laryngeal necrobacillosis Diseases caused by Haemophilus and Morexella spp.	1	2
3	Diseases caused by parasites	a1, a2, b1, b2, c1,c2	Diseases caused by blood parasitic infection	2	4
4	Diseases caused by fungus		Diseases caused by external and internal parasites		
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	1	2
3	Diagnosis of Bacterial Diseases (Samples & Sampling Procedure)	a1, a2, b1, b2, c1,c2	2	4
4	Serological and 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

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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	Diagnosis of Hemoprotozoal Diseases	a1, a2, b1, b2, c1,c2	1	2
9	Diagnosis of Gastrointestinal parasites	a1, a2, b1, b2, c1,c2	1	2
10	Immunity, Vaccine and Vaccination Schedules	a1, a2, b1, b2, c1,c2	1	2
11	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	3	6
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)

3-Assessment Methods:

- Written exam
- Practical exam
- Oral exam
- Quizzes

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

- 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)
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:

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 Momeestic Animals by Losses, G.
- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

Recommended Readings and Reference Materials	
	<ul style="list-style-type: none">• Infectious Tropical Diseases of Momeestic 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.
Essential References	
Electronic Materials and Web Sites etc.	
	<ul style="list-style-type: none">• electronic course (Infectious diseases)@ www.zu.edu.ye• www.pubmed.com• www.sciencedirect.com• American Vet.clinic small and larg.com• journal of Infectious diseases
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:

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

	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.

Course Plan of Infectious Diseases

X. - Information about Faculty Member Responsible for the Course:		
Name of Faculty Member	Dr. Abdulraqeb Ali Alshami	Office Hours

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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	

II. Course Identification and General Information:

1	Course Title:	Infectious Diseases				
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 and birds; 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

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

--

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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 bacterial, parasitic and viral diseases of animal species (cattle, sheep, goats, equine 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.

V. Course Content:

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Diseases caused by viruses: Rinderpest Peste des petits ruminants Foot and mouth disease Vesicular stomatitis Blue tongue	1,2,3,4,5,6	12

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

	Bovine virus diarrhea Malignant catarrhal fever Infections bovine rhinotracheitis Equine infectious anemia African horse sickness Equine rhinopneumonitis Equine viral arteritis Equine influenza Orf, Pox and Psudopox Lumpy skin disease Bovine papilloma virus Bovine ulcerative mammillitis Bovine ephemeral fever Rift valley fever Akabane virus disease Rabies & pseudo rabies Bovine spongiform encephalopathy Bovine viral leucosis Scrapie Louping-ill		
2	Diseases caused by bacteria: Anthrax Diseases caused by Pasteurella spp. Tuberculosis and Johns' diseases	7	2
3	Mid-Term Exam	8	2
4	Diseases caused by bacteria: Actinomycosis and Actinobacillosis Brucellosis Salmonellosis Colibacillosis Mastitis Diseases caused by Mycoplasma spp. Listeriosis Leptospirosis Foot rot Glanders Strangles Ulcerative lymphangitis Diseases caused by Clostridium spp. Caseous lymph adenitis in sheep Contagious bovine pyelonephritis Oral and laryngeal necrobacillosis	9,10,11,12,13	10

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

	Diseases caused by Haemophilus and Morexella spp.		
5	Diseases caused by parasites: Diseases caused by blood parasitic infection Diseases caused by external and internal parasites	14,15	4
6	Diseases caused by fungus		
7	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	2
3	Diagnosis of Bacterial Diseases (Samples & Sampling Procedure)	3,4	4
4	Serological and Allergic Tests	5	2
5	Field Tuberculin Test in Dairy Cattle	6	2
6	Practical training on detection of Mastitis Pathogens in samples of intramammary secretions and practical training on diagnosis of subclinical Mastitis of Dairy Animals	7	2
7	Mid-Term Exam	8	2
8	Diagnosis of Infectious Skin Diseases of Domesticated Animals	9	2
9	Diagnosis of Hemoprotozoal Diseases	10	2
10	Diagnosis of Gastrointestinal parasites	11	2
11	Immunity, Vaccine and Vaccination Schedules	12	2
12	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.	13,14,15	6
13	Final Exam	16	2
Number of Weeks /and Units Per Semester		16	32

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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)

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%

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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 Momeestic Animals by Losses, G.
- An Introduction to Veterinary Epidemiology BY Mark Stevenson 2005

2- Essential References.

- Infectious Tropical Diseases of Momeestic 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 cattie 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](http://www.zu.edu.eg))@ www.zu.edu.eg
- www.pubmed.com
- www.sciencedirect.com
- American Vet.clinic small and larg.com
- journal of Infectious diseases

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

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 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.

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي



الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة صنعاء
كلية الطب البيطري

رئيس الجامعة
أ.د. القاسم محمد عباس

عميد مركز التطوير وضمان الجودة
أ.د. هدى العماد

عميد الكلية
د. عبدالرؤف الشوكاتي

نائب العميد لشئون الجودة
د. عبدالرقيب الشامي