**Faculty Of Veterinary Medicine** 



# **Course Specification of Veterinary Internal Medicine (3)**

	I. Course Identification and General Information:						
1	Course Title:	V	Veterinary Internal Medicine (3)				
2	Course Number & Code:		IM466				
		С.Н					
3	Credit hours:	Theoretical Practical Training Seminar					
		2 1					
4	Study level/ semester at which this course is offered:	Fifth Year - Frist Semester					
5	Pre –requisite (if any):	IM465					
6	Co –requisite (if any):	None					
7	<b>Program</b> (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:

This course reviews internal diseases that effecting different body systems of animal species such as cattle, horses, sheep, goat and small animals. The etiology, clinical signs and pathogenesis of these diseases will be discussed in details as will as diagnosis, treatment and prevention. Students will learn concepts related to basic clinical examination, diagnostic principles and treatment for different animal species. Students will also be able to the development and application of appropriate professional attitudes, communication and problem solving skills.

**Faculty Of Veterinary Medicine** 



II	III. Intended learning outcomes (ILOs) of the course:				
<b>(A)</b>	Knowledge and Understanding:				
Align	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Knowledge and Understanding.				
Pro	ogram 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:	Afte	r completing this course, stu	idents will be able to:	
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.	a1-	Illustrate the causes, patho symptoms, diagnosis, trea metabolic, nutritional defi glands diseases .	tment and prognosis of	
A4-	Describes the foundations and procedural steps for treating all diseases that affect different animals, highlighting the medical conditions that need surgical interventions.	a2- Describe appropriate measures for health promotion as well as prevention of diseases in animals.			
	Teaching And Assessment Metho		8		
	lignment of Learning Outcomes of Knowledge and				
Cou	rse Intended Learning Outcomes (CILOs) in Knowledge and Understanding	Tea	ching strategies/methods to be used	Methods of assessment	
comp a1-	leting this course, students will be able to: Illustrate the causes, pathogenesis, clinical	<ul> <li>data shows and multimedia</li> <li>aids.</li> <li>brainstorm.</li> <li>discussion.</li> <li>Practical</li> <li>Oral example</li> <li>Quizzes</li> <li>Report as</li> </ul>		- Written exam - Practical exam	
ui	symptoms, diagnosis, treatment and prognosis of metabolic, nutritional deficiencies and mammary glands diseases .				

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

Faculty Of Veterinary Medicine



a2-	Describe appropriate measures for health	-Self-learning by preparing	
	promotion as well as prevention of diseases	essay and presentations	
	in animals.	(computer and faculty	
		library)	
		-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	

<b>(B)</b>	Intellectual Skills:		
Align	ment of Course Intended Learning Outcomes (CILOs) to Pro	ogram I	Intended Learning Outcomes (PILOs) in: Intellectual skills
Pro	Program Intended Learning Outcomes (Sub- PILOs) in Intellectual skills Course Intended Learning Outcomes (CILOs) o Intellectual Skills		
After	completing this program, students will be able to:	After completing this course, students 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 and in related sciences.	b1-	Interpret the incidence and most important symptoms and signs of disease in animals.
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 sick animal.	b2-	Analyzes the results of laboratory diagnosis and writes prescriptions for all common diseased cases.

Prepared by Dr. Abdulraqeb Alshami

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

**Faculty Of Veterinary Medicine** 



	Teaching And Assessment Metho	ds For Achieving Learning	g Outcomes:
Align	ment of Learning Outcomes of Intellectual Skills	to Teaching Methods and Assess	sment Methods:
Со	urse 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,	-Written exam
b1-	Interpret the incidence and most important symptoms and signs of disease in animals.	data shows and multimedia aids. - brainstorm.	-Practical exam -Oral exam - Quizzes
b2-	Analyzes the results of laboratory diagnosis and writes prescriptions for all common diseased cases.	<ul> <li>discussion.</li> <li>Self-learning by preparing essay and presentations (computer and faculty library)</li> <li>Practical training (Clinical demonstrations, practice of skills, and discussions).</li> <li>(a) Field visits (farms and villages)</li> <li>(b) General experimental animal teaching</li> <li>(c) Clinical and small group sessions</li> <li>(d) Outpatient clinic</li> </ul>	- Report assignments - Discussion

(C) Professional and Practical Skills:			
	gram Intended Learning Outcomes (PILOs) in: <b>Professional and</b> cal 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:		

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

**Faculty Of Veterinary Medicine** 



C2-	Practicing 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, taking into account the ethics of the profession.	c1-	Apply different technic diseased animals and p between similar disease	erform differentiating
С3-	Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	c2-	Perform an adequate cl diseased animal and ide normal.	
	Teaching And Assessment Meth			0
	ment of Learning Outcomes of Professional and Practic			
Co	urse Intended Learning Outcomes (CILOs) in Professional and Practical Skills	Teac	hing strategies/methods to be used	Methods of assessment
After	completing this course, students will be able to:		ctical training nical demonstrations,	-Written exam -Practical exam
c1-	Apply different techniques for diagnosis diseased animals and perform differentiating between similar diseases.	prac disc	tice of skills, and ussions). Field visits (farms	-Oral exam - Quizzes - Report assignments
c2-	Perform an adequate clinical examination for diseased animal and identify deviations from normal.	and (b) exp tea (c) gro (d)	d villages) General berimental animal ching Clinical and small up sessions Outpatient clinic ase study	- Discussion

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

**Faculty Of Veterinary Medicine** 



<b>(D)</b>	(D) General / Transferable Skills:				
Α	Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: General and Transferable skills				
Prog	gram Intended Learning Outcomes (PILOs) in General / Transferable skills	Co	ourse Intended Learning General / Trans		
After c	ompleting this program, students will be able to:	After	r completing this course, stud	lents will be able to:	
D1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	d1-		y with logistic & working ly discuss in scientific cussions and meetings.	
D3-	Practices problem-solving, negotiation, supervision and veterinary medical management skills and writing research reports efficiently and professionally.	d2- Continue to self-learn and transcribe data highlighted or solve problematic situation w		roblematic situation with eport on specific scientific urse.	
	Teaching And Assessment Metho		0	0	
	Alignment of Learning Outcomes of General and Tra				
Co	urse Intended Learning Outcomes (CILOs) in General and Transferable Skills	Tea	ching strategies/methods to be used	Methods of assessment	
After o	completing this course, students will be able to:		f-learning by preparing y and presentations	<ul> <li>Achievement file</li> <li>Evaluating student</li> </ul>	
d1-	Communicate effectively with logistic & working teams and scientifically discuss in scientific manner in scientific discussions and meetings.	ng fic(computer and faculty library)presentations. - Practical exam- Cooperative learning and to working groups- Report assignment - Discussion - Note performance		presentations.	
d2-	Continue to self-learn and transcribe data to highlighted or solve problematic situation with fast response and write report on specific scientific related subject to the course.				

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

**Faculty Of Veterinary Medicine** 



I.	<b>Course Content:</b>				
1-	Course Topics/Items:				
	a – Theoretical Aspect				
Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	Diseases of the newborn	a1, a2, b1, b2, c1, c2	<ul> <li>Perinatal and postnatal diseases</li> <li>Congenital defects</li> <li>Physical and environmental causes of perinatal disease</li> <li>Neonatal infection</li> </ul>	1	2
2	Metabolic diseases	a1, a2, b1, b2, c1, c2	<ul> <li>Milk fever</li> <li>Downer cow syndrome</li> <li>Hypomegnesemic tetanies</li> <li>Ketosis</li> <li>Pregnancy toxemia</li> <li>Postparturient</li> <li>hemoglubinuria</li> <li>Azoturia</li> </ul>	5	10
3	Diseases of the mammary Glands	a1, a2, b1, b2, c1, c2	-Bovine mastitis -Mastitis of sheep -Mastitis of goats	1	2

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

**Faculty Of Veterinary Medicine** 



	Number of Weel	ks /and Units Per S	emester	14	28
5	Diseases caused by poisonous materials	a1, a2, b1, b2, c1, c2	Diseases associated with toxins in plants, fungi, cyanobacteria, clavibacteria, insects and animals	2	4
4	Diseases caused by nutritional deficiencies	a1, a2, b1, b2, c1, c2	<ul> <li>Deficiency of vitamin A, E and selenium and D</li> <li>Deficiency of copper, iodine and zinc</li> <li>Deficiency of calcium, magnesium and phosphorus</li> <li>Deficiency of vitamin C and manganese</li> <li>Deficiency of thiamin, B12, ribolavin and cholline</li> </ul>	5	10

	b- Training Aspect:			
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Newborn diseases (cases, how to examine and treat)	a1, a2, b1, b2, c1, c2	1	2
2	Metabolic diseases (cases, how to examine and treat)	a1, a2, b1, b2, c1, c2	5	10
3	Diseases of the mammary gland (cases, how to examine and treat)	a1, a2, b1, b2, c1, c2	1	2
4	Diseases caused by nutritional deficiencies (cases, how to examine and treat)	a1, a2, b1, b2, c1, c2	5	10
5	Diseases caused by poisonous materials (cases, how to examine and treat)	a1, a2, b1, b2, c1, c2	2	4
	Number of Weeks /and Units Pe	er Semester	14	28

Prepared by Dr. Abdulraqeb Alshami

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

Faculty Of Veterinary Medicine



II. Teaching strategies of the course:
<ul> <li>Lectures using board, data shows and multimedia aids.</li> </ul>
<ul> <li>Self-learning by preparing essay and presentations (computer and faculty library)</li> </ul>
<ul> <li>Brainstorm</li> </ul>
<ul> <li>Discussion</li> </ul>
<ul> <li>Cooperative learning</li> </ul>
<ul> <li>Practical training (Clinical demonstrations, practice of skills, and discussions).</li> </ul>
(a) Field visits (farms and villages)
(b) General experimental animal teaching
(c) Clinical and small group sessions
(d) Outpatient clinic
<ul> <li>Tutorial classes (small group teaching)</li> </ul>
<b>3-Assessment Methods:</b>
-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 Dr. Abdulraqeb Alshami

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

**Faculty Of Veterinary Medicine** 



Π	III. 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,d2			
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			
	Final Exam	16	55	55%	a1, a2, b1, b2, c1, c2			
	Total		100	100%				

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

## V. 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 10<sup>th</sup> Ed. Baillere Tindall, London.
- Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.

Prepared by Vie Dr. Abdulraqeb Alshami

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

**Faculty Of Veterinary Medicine** 



Reco	mmended Readings and Reference Materials
•	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 10 <sup>th</sup> Ed. Baillere Tindall, London.
•	Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadel Sydney, Toronto.
•	Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 2011
•	Pocket companion to textbook of veterinary internal medicine · Ettinger, Stephen J.
•	Philip R.S., Colin D.P. and Alastair I. M (2011): Cattle Medicine. Manson Publishing/The Veter Press.
•	Pugh D.G. (2002): Sheep and goat medicine . <sup>1</sup> st ed., Saunders An Imprint of Elsevier, Philadelphia, Pennsylvania.
Esser	tial References
•	Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medicine, textbook of the diseases of cattle, horses, sheep, pigs and goats 10 <sup>th</sup> Ed. Baillere Tindall, London Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadel Sydney, Toronto. Textbook of veterinary internal medicine.
Elect	ronic Materials and Web Sites <i>etc</i> .
Journa	l of Veterinary Internal Medicine (http://www.wiley.com/bw/journal.asp)
•	American College of Veterinary Internal Medicine
•	Internal Medicine www.criticalcarevets.com
•	Internal Medicine www.animal-emergency.com

Prepared by	Vice Dean For Quality	Dean of the Faculty	Dean of Development
Dr. Abdulraqeb Alshami	Affairs	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
	Dr. Abdulraqeb Alshami	Al-Shawkany	Assurance
			Ass Prof Dr Hude Al

Assurance Ass. Prof. Dr. Huda Al-Emad

**Faculty Of Veterinary Medicine** 



- Central Texas Veterinary Specialty Hospital Internal Medicine
- IVIS Bookstore: Ruminant Medicine International Veterinary
- Alberta Agriculture, Food and Rural Development

Livestock diseases and parasites.

<u>American Association of Bovine Practitioners</u>

The American Association of Bovine Practitioners is an international association of veterinarians organized to enhance the professional lives of its members through relevant continuing education that will improve the well-being of cattle and the economic success of their owners, increase awareness and promote leadership for issues critical to cattle industries, and improve opportunities for careers in bovine medicine.

- <u>American Association of Small Ruminant Practitioners</u>
- Animal Disease Information

Animal disease factsheets, image database, power points, zoonotic fast facts, disease wall charts, etc.

• Bovine Tuberculosis Eradication: Uniform Methods and Rules

(PDF) These Uniform Methods and Rules (UM&R) are the minimum standards adopted and **approved** by the Animal and Plant Health Inspection Service (APHIS). They were established for the maintenance of tuberculosis-free accredited herds of cattle and bison and the maintenance of State or zone status in the U.S. Department of Agriculture's (USDA) tuberculosis eradication program. These minimum standards do not preclude the adoption of more stringent standards by any State or zone.

• Cattle Diseases

University of Nebraska - NU Institute of Agriculture and Natural Resources

• Large Animal Veterinary Rounds

Rounds transcripts presented at the Western College of Veterinary Medicine (University of Saskatchewan) Department of Large Animal Clinical Sciences. The transcripts are available in pdf format and are searchable by year.

Food Animal Production Medicine Nutrition Topics

Publications, information, and data collection tools include: Herd Based Tests For Metabolic Disorders, Introduction To Ruminal Acidosis, Herd Based Diagnosis Of Ruminal Acidosis, Nutritional Management Of Ruminal Acidosis, Factors That Contribute To Ruminal Acidosis, Ketosis And Hepatic Lipidosis, Hypokalemia Article, Calcium Chloride Gel Treatment Of Parturient Dairy Cows, and a Herd Nutrition History And Evaluation Form.

Prepared by	Vice Dean For Quality	Dean of the Faculty	Dean of Development
Dr. Abdulraqeb Alshami	Affairs	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
	Dr. Abdulraqeb Alshami	Al-Shawkany	Assurance
			Ass. Prof. Dr. Huda Al-

Emad

**Faculty Of Veterinary Medicine** 



• <u>Small Ruminant Information</u> A variety of extension publications on sheep from the University of Missouri. Covering subjects from Care of Ewes and Lambs at Lambing Time to Mastitis in the Ewe.

- Equine Medicine
- Pet Animals Medicine News Results
- <u>Livestock Library</u>

Other Learning Material:

X.	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.

Prepared by	Vice Dean For Quality	Dean of the Faculty	Dean of Development
Dr. Abdulraqeb Alshami	Affairs	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
	Dr. Abdulraqeb Alshami	Al-Shawkany	Assurance
			Ass Prof Dr Hude Al

Assurance Ass. Prof. Dr. Huda Al-Emad





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

## **Course Plan of Veterinary Internal Medicine (3)**

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	тни
E-mail	Alshami.vet@gmail.com	8am 2pm	8am 2pm	8am 2pm	8am 2pm	8am 2pm	

KI. Cou	KI. Course Identification and General Information:							
1	Course Title:	Veterinary Internal Medicine (3)						
2	Course Number & Code:	IM466						
	Credit hours:	С.Н				Total		
3		Th.	Seminar	Pr.	F. Tr.	Total		
		2	-	1	-	3		
4	Study level/year at which this course is offered:	Fifth Year - Frist Semester						
5	Pre –requisite (if any):	IM465						

Prepared by<br/>Dr. Abdulraqeb AlshamiVice Dean For Quality<br/>AffairsDean of the Faculty<br/>Ass. Prof. Dr. Abdu Alraoof<br/>Al-ShawkanyDean of Development<br/>Center & Quality<br/>Assurance

Assurance Ass. Prof. Dr. Huda Al-Emad





6	Co –requisite (if any):	None		
7	Program (s) in which the course is offered	Bachelor 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:

This course reviews internal diseases that effecting different body systems of animal species such as cattle, horses, sheep, goat and small animals. The etiology, clinical signs and pathogenesis of these diseases will be discussed in details as will as diagnosis, treatment and prevention. Students will learn concepts related to basic clinical examination, diagnostic principles and treatment for different animal species. Students will also be able to the development and application of appropriate professional attitudes, communication and problem solving skills

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

After completing this course, students will be able to:

a1- Illustrate the causes, pathogenesis, clinical symptoms, diagnosis, treatment and prognosis of metabolic, nutritional deficiencies and mammary

glands diseases .

a2- Describe appropriate measures for health promotion as well as prevention of diseases in animals.

b1- Interpret the incidence and most important symptoms and signs of disease in animals.

Prepared by Dr. Abdulraqeb Alshami

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





b2- Analyzes the results of laboratory diagnosis and writes prescriptions for all common diseased cases.

c1- Apply different techniques for diagnosis diseased animals and perform differentiating between similar diseases.

c2- Perform an adequate clinical examination for diseased animal and identify deviations from normal.

d1- Communicate effectively with logistic & working teams and scientifically discuss in scientific manner in scientific discussions and meetings.

d2- Continue to self-learn and transcribe data to highlighted or solve problematic situation with fast response and write report on specific scientific related subject to the course.

X.	Course Content:					
A – Theoretical Aspect:						
Order	Topics List	Week Due	Contact Hours			
1	Diseases of the newborn: - Perinatal and postnatal diseases - Congenital defects - Physical and environmental causes of perinatal disease - Neonatal infection	1	2			

Prepared by	Vice Dean For Quality	Dean of the Faculty	Dean of Development	
Dr. Abdulraqeb Alshami	Affairs	Ass. Prof. Dr. Abdu Alraoof	Center & Quality	
	Dr. Abdulraqeb Alshami	Al-Shawkany	Assurance	
			Ass Prof Dr Huda Al-	

Ass. Prof. Dr. Huda Al-Emad

**Faculty Of Veterinary Medicine** 



2	Metabolic diseases: - Milk fever - Downer cow syndrome - Hypomegnesemic tetanies - Ketosis - Pregnancy toxemia - Postparturient hemoglubinuria - Azoturia	2,3,4,5,6	10
3	<b>Diseases of the mammary glands:</b> -Bovine mastitis -Mastitis of sheep -Mastitis of goats	7	2
4	Mid-Term Exam	8	2
5	<ul> <li>Diseases caused by nutritional deficiencies:</li> <li>Deficiency of vitamin A, E and selenium and D</li> <li>Deficiency of copper, iodine and zinc</li> <li>Deficiency of calcium, magnesium and phosphorus</li> <li>Deficiency of vitamin C and manganese</li> <li>Deficiency of thiamin, B12, ribolavin and cholline</li> </ul>	9,10,11,12,13	10
6	<b>Diseases caused by poisonous materials</b> : Diseases associated with toxins in plants, fungi, cyanobacteria, clavibacteria, insects and animals	14,15	4
7	Final Exam	16	2
	Number of Weeks /and Units Per Semester	16	32

	b- Training Aspect:					
	Order		Training Tas	iks	Week Due	Contact hours
Dr. A	Prepare Abdulraqe	ed by eb Alshami	Vice Dean For Quality Affairs Dr. Abdulraqeb Alshami	Dean of the Faculty Ass. Prof. Dr. Abdu Alraoof Al-Shawkany	Dean of Deve Center & ( Assuran Ass. Prof. Dr	Quality nce

Ass. Prof. Dr. Huda Al Emad

**Faculty Of Veterinary Medicine** 



1	Newborn diseases (cases, how to examine and treat)	1	2
2	Metabolic diseases (cases, how to examine and treat)	2,3,4,5,6	10
3	Diseases of the mammary gland (cases, how to examine and treat)	7	2
4	Mid-Term Exam	8	2
5	Diseases caused by nutritional deficiencies (cases, how to examine and treat)	9,10,11,12,13	10
6	Diseases caused by poisonous materials (cases, how to examine and treat)	14,15	4
7	Final Exam	16	2
	Number of Weeks /and Units Per Semester	16	32

Prepared by Dr. Abdulraqeb Alshami

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

**Faculty Of Veterinary Medicine** 



<ul> <li>Lectures using</li> </ul>	board, data shows and multing	nedia aids.	
	by preparing essay and present		y library)
<ul> <li>Brainstorm</li> </ul>			• • •
<ul> <li>Discussion</li> </ul>			
<ul> <li>Cooperative let</li> </ul>	arning		
	ing (Clinical demonstrations, j	practice of skills, and discus	ssions).
	(farms and villages)	,	,
. ,	perimental animal teaching		
	d small group sessions		
(d) Outpatient			
· · •	es (small group teaching)		
. Assessment Me	ethods:		
Practical exam			
i invitui vituiti			
Oral exam			
Oral exam Quizzes Report assignments Discussion.			

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

**Faculty Of Veterinary Medicine** 



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%

1- Required Textbo	ook(s) ( maximum two ).
Mee	dostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary dicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10 <sup>th</sup> Ed. llere Tindall, London.
	ith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, ladelphia, Sydney, Toronto.
2- Essential Refe	erences.
Rad A te Lon Smi	erences. dostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary M extbook of the diseases of cattle, horses, sheep, pigs and goats 10 <sup>th</sup> Ed. Baillere Tind ndon. ith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, ladelphia, Sydney, Toronto.

Center & Quality Assurance Ass. Prof. Dr. Huda Al-Emad

**Faculty Of Veterinary Medicine** 



Textbook of veterinary internal medicine.
3- Electronic Materials and Web Sites <i>etc</i> .
Journal of Veterinary Internal Medicine (http://www.wiley.com/bw/journal.asp)
<u>American College of Veterinary Internal Medicine</u>
<u>Internal Medicine</u> www.criticalcarevets.com
<u>Internal Medicine</u> www.animal-emergency.com
<u>Central Texas Veterinary Specialty Hospital - Internal Medicine</u>
IVIS Bookstore: Ruminant Medicine - International Veterinary
<u>Alberta Agriculture, Food and Rural Development</u>
Livestock diseases and parasites.
• <u>American Association of Bovine Practitioners</u> The American Association of Bovine Practitioners is an international association of veterinarians
organized to enhance the professional lives of its members through relevant continuing education that will improve the well-being of cattle and the economic success of their owners, increase awareness and promote leadership for issues critical to cattle industries, and improve opportunities for careers in bovine medicine.
<u>American Association of Small Ruminant Practitioners</u>
<u>Animal Disease Information</u>
Animal disease factsheets, image database, power points, zoonotic fast facts, disease wall charts,
etc.
• <u>Bovine Tuberculosis Eradication: Uniform Methods and Rules</u> (PDF) These Uniform Methods and Rules (UM&R) are the minimum standards adopted and approved by the Animal and Plant Health Inspection Service (APHIS). They were established for the maintenance of tuberculosis-free accredited herds of cattle and bison and the maintenance of State or zone status in the U.S. Department of Agriculture's (USDA) tuberculosis eradication program. These minimum standards do not preclude the adoption of more stringent standards by any State or zone.
• <u>Cattle Diseases</u> University of Nebraska NIL Institute of Agriculture and Natural Resources
University of Nebraska - NU Institute of Agriculture and Natural Resources

Prepared by	Vice Dean For Quality	Dean of the Faculty	Dean of Development
Dr. Abdulraqeb Alshami	Affairs	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
	Dr. Abdulraqeb Alshami	Al-Shawkany	Assurance

Assurance Ass. Prof. Dr. Huda Al-Emad

**Faculty Of Veterinary Medicine** 



<u>Large Animal Veterinary Rounds</u>
 Rounds transcripts presented at the Western College of Veterinary Medicine (University of Saskatchewan) Department of Large Animal Clinical Sciences. The transcripts are available in pdf format and are searchable by year.
 <u>Food Animal Production Medicine Nutrition Topics</u>
 Publications, information, and data collection tools include: Herd Based Tests For Metabolic Disorders, Introduction To Ruminal Acidosis, Herd Based Diagnosis Of Ruminal Acidosis, Nutritional Management Of Ruminal Acidosis, Factors That Contribute To Ruminal Acidosis, Ketosis And Hepatic Lipidosis, Hypokalemia Article, Calcium Chloride Gel Treatment Of Parturient Dairy Cows, and a Herd Nutrition History And Evaluation Form.

• Small Ruminant Information

A variety of extension publications on sheep from the University of Missouri. Covering subjects from Care of Ewes and Lambs at Lambing Time to Mastitis in the Ewe.

- Equine Medicine
- Pet Animals Medicine News Results
- Livestock Library

<ul> <li>2 Tardy: Not allowed at all. Student</li> <li>3 Exam Attendance/Punct</li> </ul>	END ALL COURSE LECTURES
MANDATORY TO ATTR 2 Tardy: Not allowed at all. Student 3 Exam Attendance/Punct	END ALL COURSE LECTURES
<ul> <li>2 Tardy: Not allowed at all. Student</li> <li>3 Exam Attendance/Punct</li> </ul>	END ALL COURSE LECTURES
Not allowed at all. Student           3         Exam Attendance/Punct	
3 Exam Attendance/Punct	
	s must be in class 10 minutes prior to the beginning of lectures.
	uality:
Attendance is mandatory;	absence is accepted with valid excuse.
4 Assignments & Projects:	
All assignments and project	cts 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

Prepared by	Vice Dean For Quality	Dean of the Faculty	Dean of Development
Dr. Abdulraqeb Alshami	Affairs	Ass. Prof. Dr. Abdu Alraoof	Center & Quality
	Dr. Abdulraqeb Alshami	Al-Shawkany	Assurance

Ass. Prof. Dr. Huda Al-Emad

**Faculty Of Veterinary Medicine** 



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.

Prepared by Dr. Abdulraqeb Alshami

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



نائب العميد لشئون الجودة عميد الكلية عميد مركز التطوير وضمان الجودة رئيس الجامعة د. عبدالرقيب الشامي د. عبدالرؤف الشوكاني أ.د. هدى العماد أ.د. القاسم محمد عباس