Faculty Of Veterinary Medicine

Veterinary Medicine Program









Course Specification of Veterinary Internal Medicine (1)

I	. Course Identification and General Info	rmation:					
1	Course Title:	Veterinary Internal Medicine (1)					
2	Course Number & Code:	IM464					
		C.H					
3	Credit hours:	Theoretical Practical Training Seminar				Total	
		3 1	1	1	-	4	
4	Study level/ semester at which this course is offered:	Fourth Year - Frist Semester					
5	Pre -requisite (if any):	PH243					
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:

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.

Prepared by Dr. Abdulrageb Alshami Dr. Abdulrageb Alshami

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Veterinary Medicine Program









II	III. Intended learning outcomes (ILOs) of the course:				
	Knowledge and Understanding:				
Aliş	gnment of Course Intended Learning Outcomes (CILOs) to Pr Unde			Os) in: Knowledge and	
Program Intended Learning Outcomes (Sub- PILOs) in: Knowledge and Understanding			ourse Intended Learning (Knowledge and Ui	nderstanding	
After	completing this program, students will be able to:	Afte	r completing this course, stud	dents will be able to:	
A1- Demonstrate a sound knowledge and understanding of concepts and principles of general culture, basic science, and that support veterinary medicine. A3- Identifies various causes of animal diseases, animal epidemics and how they can be diagnosed; including common and lifethreatening diseases of animals, poultry and fish. a1- Elucidate the most common internal med diseases affecting all species of the animal describe appropriate management for the disorders. a2- Illustrate the causes, pathogenesis, clinical symptoms, diagnosis, treatment and progenthe diseases of digestive and respiratory symptoms.			es of the animals, and gement for these genesis, clinical ment and prognosis of		
	Teaching And Assessment Metho	ds F	or Achieving Learning	Outcomes:	
I	Alignment of Learning Outcomes of Knowledge an	d Und	lerstanding to Teaching and	Assessment Methods:	
Cou	rse Intended Learning Outcomes (CILOs) in Knowledge and Understanding	Tea	ching strategies/methods to be used	Methods of assessment	
comp	leting this course, students will be able to:		tures using board, data	- Written exam	
a1- a2-	Elucidate the most common internal medical diseases affecting all species of the animals, and describe appropriate management for these disorders. Illustrate the causes, pathogenesis, clinical	shows and multimedia aids brainstorm discussionSelf-learning by preparing essay and presentations (computer and faculty library) -Practical training (Clinical demonstrations, practice of skills, and discussions). (a) Field visits (farms and villages)		 Practical exam Oral exam Quizzes Report assignments Discussion	
	symptoms, diagnosis, treatment and prognosis of the diseases of digestive and respiratory system.				
-	Prepared by Quality Assurance Unit	Ε	Dean of the Faculty	Academic Development	

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

Center & Quality

Assurance Ass. Prof. Dr. Huda Al-Emad

Dr. Abdulraqeb Alshami Dr. Abdulraqeb Alshami

Ass. Prof. Dr. Abdu Alraoof

Al-Shawkany

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	(b) General experimental animal teaching(c) Clinical and small group sessions(d) Outpatient clinic	
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(B)	Intellectual Skills:				
Align	ment of Course Intended Learning Outcomes (CILOs) to Pro	ogram l	Intended Learning Outcomes (PII	LOs) 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:			completing this course, stude	nts 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 sick animal.	b1-	Interpret the results of lab writes prescriptions for al cases.	• •	
В3-	Design appropriate nursing and treatment care plans for different animal diseases and determine prioritizing of therapeutic.	b2- Assess the appropriate treatment for affected animals according to the principles of the integrated management.			
	Teaching And Assessment Metho	ds Fo	or Achieving Learning	g Outcomes:	
Align	ment of Learning Outcomes of Intellectual Skills	to Tea	ching Methods and Assess	ment Methods:	
Co	ourse Intended Learning Outcomes (CILOs) in Intellectual Skills.	Tea	ching strategies/methods to be used	Methods of assessment	
After	completing this course, students will be able to:	-Lec	tures using board, data	-Written exam	
b1-	Interpret the results of laboratory diagnosis and writes prescriptions for all common diseased cases.	shows and multimedia aids brainstorm discussionSelf-learning by preparing		-Practical exam -Oral exam - Quizzes - Report assignments	
b2-	Assess the appropriate treatment for affected animals according to the principles of the integrated management.	(con libra -Pra	y and presentations nputer and faculty ry) ctical training (Clinical onstrations, practice of	- Discussion	

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	skills, and discussions). (a) Field visits (farms and villages) (b) General experimental animal teaching (c) Clinical and small group sessions (d) Outpatient clinic	
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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					
completing this program, students will be able to:	After	completing this course, stu	idents will be able to:		
Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks.	c1-	Perform a proper historiconstruct appropriate canimals.	ry for diseased animal and clinical assessments for		
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.	c2-	Apply different techniques for diagnosis diseased animals and perform differentiating between similar diseases.			
ourse Intended Learning Outcomes (CILOs) in Professional and Practical Skills			Methods of assessment		
Perform a proper history for diseased animal and construct appropriate clinical	dem	onstrations, practice of	-Written exam -Practical exam -Oral exam		
	Practic Ogram Intended Learning Outcomes (Sub- LOs) in Professional and Practical Skills completing this program, students will be able to: Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks. 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. Teaching And Assessment Meth ment of Learning Outcomes of Professional and Practic ourse Intended Learning Outcomes (CILOs) in Professional and Practical Skills completing this course, students will be able to: Perform a proper history for diseased animal	Perform a proper history for diseased animal Procedural Skills Countered Learning Outcomes (Sub-LOs) in Professional and Practical Skills Completing this program, students will be able to: Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks. 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. C2- Teaching And Assessment Methods Interest of the professional and Practical Skills Completing this course, students will be able to: Perform a proper history for diseased animal Professional and Practical Skills	param Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (Practical Skills Degram Intended Learning Outcomes (Sub-LOs) in Professional and Practical Skills Course Intended Learning Professional and Profe		

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	assessments for animals.	(a) Field visits (farms and	- Quizzes
c2-	Apply different techniques for diagnosis diseased animals and perform differentiating between similar diseases.	villages) (b) General experimental animal teaching (c) Clinical and small group sessions (d) Outpatient clinic - Case study	Report assignmentsDiscussion

(D)	(D) General / Transferable Skills:				
A	lignment of Course Intended Learning Outcomes (CILOs) to Pro	_	_	PILOs) in: General and	
Proc	Transfera gram Intended Learning Outcomes (PILOs) in			g Outcomes (CILOs) in	
General / Transferable skills			General / Trans	, , ,	
After c	ompleting this program, students will be able to:	Afte	r completing this course, stu	dents will be able to:	
D1-	Communicates effectively with Professional colleagues and animal owners and expresses his ideas clearly and objectively.	d1- Communicate effectively with animal's owners using appropriate communication skills.			
D2-	Develops his scientific, professional and research capabilities and follow what is emerging in his field of specialization and using computer applications and information and communication technology.	d2- Cooperate in work effectively and share learned knowledge.		ctively and share learned	
	Teaching And Assessment Metho	ds F	or Achieving Learni	ing Outcomes:	
A	alignment of Learning Outcomes of General and Tra	nsfera	able skills to Teaching and	Assessment Methods:	
Cou	rse Intended Learning Outcomes (CILOs) in General and Transferable Skills	Tea	ching strategies/methods to be used	Methods of assessment	
	ompleting this course, students will be able to:		f-learning by preparing y and presentations	Achievement fileEvaluating student	
d1-	Communicate effectively with animal's owners using appropriate communication skills.		nputer and faculty	presentations Practical exam	
d2-	Cooperate in work effectively and share learned	- Co	poperative learning and	- Report assignments	

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kno	owledge.	working groups	- Discussion
		- Scientific visits	- Note performance
		- discussions	
		- Assignments	

I. Course Content:

1 – Course Topics/Items:

a - Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	
			Toxemia, Hyperthermia, Hypothermia, Fever	1	3
1	General Systemic State	a1, a2, b1, b2, c1,	Shock, Pain, Stress, Hypersensitiviy	1	3
•	General Systemic State	c2,d1	Anaphylaxis and Anaphylactic shock, Edema	1	3 3 3 3 3 3 6 6 6
			Principles of fluid therapy	1	
			Principles and Manifestations of alimentary tract dysfunctions	1	3
2	Diseases of digestive system	a1, a2, b1, b2, c1, c2,d1	-Principles of treatment of alimentary tract diseases -Ruminant digestive system drugs	1	3
			Diseases of oral cavity, pharynx and esophagus	1	3
3	Disagge of digastive system	a1, a2, b1, b2, c1,	Diseases of forestomachs in ruminants	2	6
3	Diseases of digestive system	c2,d1	Diseases of stomach, intestine and Equine colic	2	6
4	Diseases of respiratory system	a1, a2, b1, b2, c1, c2,d1	Diseases of upper respiratory tractDiseases of lungs	3	9

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			_
Number of Weeks /and Units Per Semester	14	42	l

	b- Training Aspect:				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours	
1	Examination for diagnosis: - Case history - Examination of the diseased animals: General inspection (visual exam) Physical examination	a1, a2, b1, b2, c1, c2,d1	3	6	
2	General clinical examination: -Respiration -Pulse -Temperature -Exam of mucous membrane -Exam of superficial LNs	a1, a2, b1, b2, c1, c2,d1	4	8	
3	Examination of digestive system (cases, how to examine and treat)	a1, a2, b1, b2, c1, c2,d1	4	8	
4	Examination of respiratory system (cases, how to examine and treat)	a1, a2, b1, b2, c1, c2,d1	3	6	
	Number of Weeks /and Units Pe	r Semester	14	28	

IV. 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

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- 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
- Tutorial classes (small group teaching)

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).

V	V. 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,d1			
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,d1			

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6	Final Exam	16	55	55%	a1, a2, b1, b2, c1, c2
	Total		100	100%	

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

VII. 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.
 - Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.
- **Recommended 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 10th Ed. Baillere Tindall, London.
 - Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia Sydney, Toronto.
 - Color atlas of diseases and disorders in cattle by. Blowey, Roger W and Weaver, A. David 20113rd E
 - 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 Veterinary Press.
 - Pugh D.G. (2002): Sheep and goat medicine. ¹st ed., Saunders An Imprint of Elsevier, Philadelphia, Pennsylvania.

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Essential References

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

Electronic Materials and Web Sites etc.

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

Livestock diseases and parasites.

American Association of Bovine Practitioners

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.

- American Association of Small Ruminant Practitioners
- **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)

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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.

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

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

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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.

Course Plan of Veterinary Internal Medicine (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	

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KI. (KI. Course Identification and General Information:						
1-	Course Title:	Veterinary Internal Medicine (1)					
2-	Course Number & Code:	IM464					
С.Н			Н		Total		
3-	Credit hours:	Th.	Seminar	Pr.	F. Tr.	TOLAT	
		3	-	1	-	4	
4-	Study level/year at which this course is offered:	Fourth year – First Semester					
5-	Pre -requisite (if any):	PH243					
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					

Course Description: П.

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

Intended learning outcomes (ILOs) of the course:

After completing this course, students will be able to:

a1- Elucidate the most common internal medical diseases affecting all species of the animals, and describe appropriate management for these disorders.

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- a2-Illustrate the causes, pathogenesis, clinical symptoms, diagnosis, treatment and prognosis of the diseases of digestive and respiratory system.
- b1- Interpret the results of laboratory diagnosis and writes prescriptions for all common diseased cases.
- b2- Assess the appropriate treatment for affected animals according to the principles of the integrated management.
- c1- Perform a proper history for diseased animal and construct appropriate clinical assessments for animals.
- c2- Apply different techniques for diagnosis diseased animals and perform differentiating between similar diseases.
- d1- Communicate effectively with animal's owners using appropriate communication skills.
- d2- Cooperate in work effectively and share learned knowledge.

I. Course Content:

A – Theo	A – Theoretical Aspect:					
Order	Topics List	Week Due	Contact Hours			
1	General Systemic State: - Toxemia, Hyperthermia, Hypothermia, Fever - Shock, Pain, Stress, Hypersensitiviy - Anaphylaxis and Anaphylactic shock, Edema - Principles of fluid therapy	1,2,3,4	12			

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2	Diseases of digestive system: -Principles and Manifestations of alimentary tract dysfunctions -Principles of treatment of alimentary tract diseases -Ruminant digestive system drugs -Diseases of oral cavity, pharynx and esophagus	5,6,7	9
3	Mid-Term Exam	8	3
4	Diseases of digestive system: - Diseases of forestomachs in ruminants - Diseases of stomach, intestine and Equine colic	9,10,11,12	12
5	Diseases of respiratory system: - Diseases of upper respiratory tract - Diseases of lungs	13,14,15	9
6	Final Exam	16	3
	Number of Weeks /and Units Per Semester	16	48

	b- Training Aspect:		
Order	Training Tasks	Week Due	Contact hours
1	Examination for diagnosis: - Case history - Examination of the diseased animals: General inspection (visual exam) Physical examination	1,2,3	6
2	General clinical examination: -Respiration -Pulse -Temperature -Exam of mucous membrane -Exam of superficial LNs	4,5,6,7	6
3	Mid-Term Exam	8	2

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	Number of Weeks /and Units Per Semester	16	32
6	Final Exam	16	2
5	5 Examination of respiratory system (cases, how to examine and treat)		6
4	4 Examination of digestive system (cases, how to examine and treat)		8

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
- Tutorial classes (small group teaching)

V. Assessment Methods:

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

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- Discussion.				
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%

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

2- Essential References.

- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2007): Veterinary Medici textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, Lond
- Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.
- Textbook of veterinary internal medicine.

3- Electronic Materials and Web Sites etc.

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Quality Assurance Unit

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

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

Faculty Of Veterinary Medicine

Veterinary Medicine Program









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

Livestock diseases and parasites.

American Association of Bovine Practitioners

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.

- American Association of Small Ruminant Practitioners
- **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,

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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

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:						
	5. All devices must be on silent or at least on vibration during lectures/labs.						
	6. 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.						
	7. Any of type/ form of cheating is not allowed no matter what.						
	8. Maintain silence during lectures and disturbance is not allowed.						

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