



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

Course Specification of Necropsy

I. Course Identification and General Information:						
1	Course Title	Necropsy				
2	Course Number & Code:	PA578				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	
		1	1		2	
4	Study level/ semester at which this course is offered:	Fifth Year - Second Semester				
5	Pre –requisite (if any):	ANT232, ANT234, PA723, IM566				
6	Co –requisite (if any):					
7	Program (s) in which the course is offered:	Bachelor Veterinary Medicine				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Veterinary Medicine				
10	Prepared by:	Dr. Aref saleh mohammed abdulmghni				
11	Date of approval:					

II. Course description:

The course aimed to provide the student with knowledge and skills in the introduction & classification of Necropsy, and know various methods of External Examination Subcutis and Umbilical Area. Identify the Fatal Diseases or Conditions with No Lesions .

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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-	Illustrates basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care, and animal-related ethical Blogs.	a1-	Identify the Necropsy (External Examination Subcutis and Umbilical Area)
A3	Identifies various causes of diseases and animal epidemics and how they can be diagnosed, including common diseases that life-threatening of animals, poultry and fish.	a2	Describe the Fatal Diseases or Conditions with No Lesions.

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:		1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room 3- Self learning followed by active learning (beer article and discussion in group). 4- Audiovisual aids materials.	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
a1-	Identify the Necropsy (External Examination Subcutis and Umbilical Area)		
a2-	Describe the Fatal Diseases or Conditions with No Lesions.		

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	5- Students presentations	
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(B) Intellectual Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: Intellectual skills

Program Intended Learning Outcomes (Sub-PILOs) in Intellectual skills		Course Intended Learning Outcomes (CILOs) of Intellectual Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
B2	Assess, classify and describe appropriate treatment for affected animals according to the principles of the integrated management.	b1-	Evaluate the outcome of the Necropsy regarding the cost/ benefit ratio
B3	Recognize and institute appropriate initial management for different animal emergencies.	b2-	Evidence based veterinary medicine in making decisions to select from different choices

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-	Evaluate the outcome of the Necropsy regarding to the cost/ benefit ratio	1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room 3- Self learning followed by active learning (beer article and discussion in group). 4- Audiovisual aids materials. 5- Students presentations	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
b2-	Evidence based veterinary medicine in making decisions to select from different choices		

(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
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After completing this program, students will be able to:		After completing this course, students will be able to:	
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-	Perform different types of Necropsy
C3	Reads the results of laboratory investigations and diagnostic scans and writes reports and prescriptions for all common cases in a proper way.	c2-	Perform different techniques for Necropsy and position according to type of animal.

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:		1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room 3- Self learning followed by active learning (beer article and discussion in group). 4- Audiovisual aids materials. 5- Students presentations	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
c1-	Perform different types of Necropsy		
c2-	Perform different techniques for Necropsy and position according to type of animal.		

(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:

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D3	Practices problem-solving, negotiation, supervision and veterinary medical management skills and writing research reports efficiently and professionally.	d1-	Collect of the videos through websites which show students clinical symptoms on animals of different surgical affections and the surgical operations.
D4	Works in normal conditions, crises and epidemics, alone and effectively within a medical team.	d2-	Demonstrate appropriate professional attitudes and behaviors in different practice situations.

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-	Collect of the videos through websites which show for students clinical symptoms on animals of different surgical affections and the surgical operations.	1-Interactive lectures (Brain storming, seminars, discussion). 2-Practical lessons in dissecting room	Written exam -Practical exam -Oral exam - Quizzes
d2-	Demonstrate appropriate professional attitudes and behaviors in different practice situations.	3- Self learning followed by active learning (beer article and discussion in group). 4- Audiovisual aids materials. 5- Students presentations	- Report assignments - Discussion

IV. Course Content:

1 – Course Topics/Items:

a – Theoretical Aspect

Order	Topic List / Units	CILOs (symbols)	Sub-topic List	Number of weeks	Contact hours
1	General Necropsy Technique	a1- a2- b1- b2- c1- c2	Definition , -Classification	1	1

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2	External Examination Subcutis and Umbilical Area	a1- a2- b1- b2- c1- c2	Definition , -Classification	2	1
3	Body Cavity Opening and Evaluation	a1- a2- b1- b2- c1- c2	Definition , -Classification	3	1
4	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	4	1
5	Allergy and Allergy-Like Deaths	a1- a2- b1- b2- c1- c2	Definition , -Classification	5	1
6	Fetal Deaths 95 Poisonings and Toxins	a1- a2- b1- b2- c1- c2	Definition , -Classification	6	1
7	Metabolic-Related Diseases	a1- a2- b1- b2- c1- c2	Definition , -Classification	7	1
8	Anatomic Diagram s for Necropsy Findings	a1- a2- b1- b2- c1- c2	Definition , -Classification	8	1
9	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	9	1
10	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	10	1
11	Fatal Diseases or Conditions with No Lesions	a1- a2- b1- b2- c1- c2	Definition , -Classification	11	1
12	Representative Stages of Postmortem Lung Inflation	a1- a2- b1- b2- c1- c2	Definition , -Classification	12	1

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13	Types of Fat Necrosis	a1- a2- b1- b2- c1- c2	Definition , -Classification	13	1
14	Types of Fat Necrosis	a1- a2- b1- b2- c1- c2	Definition , -Classification	14	1
Number of Weeks /and Units Per Semester				14	14

b- Training Aspect:				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Gastrointestinal Tract Removal	a1- a2- b1- b2- c1- c2	1	2
2	Abdominal Visceral Removal	a1- a2- b1- b2- c1- c2	1	2
3	Tongue, Thyroids, Esophagus, Trachea, Lung, and Heart Removal	a1- a2- b1- b2- c1- c2	1	2
4	Joint Examination	a1- a2- b1- b2- c1- c2	1	2
5	Eye and Brain Removal	a1- a2- b1- b2- c1- c2	1	2
6	Pituitary Removal and Bone M arrow Examination	a1- a2- b1- b2- c1- c2	1	2
7	Review	a1- a2- b1- b2- c1- c2	1	2
8	Remove Mandible	a1- a2- b1- b2- c1- c2	1	2
9	Guttural Pouch Examination	a1- a2- b1- b2- c1- c2	1	2
10	Opening the Heart	a1- a2- b1- b2- c1- c2	1	2
11	Procedures and equipment of general Necropsy	a1- a2- b1- b2- c1- c2	1	2
12	Ligaments, Tendons, and Joints	a1- a2- b1- b2- c1- c2	1	2
13	Ligaments, Tendons, and Joints	a1- a2- b1- b2- c1- c2	1	2

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14	Ligaments, Tendons, and Joints	a1- a2- b1- b2- c1- c2	1	2
Number of Weeks /and Units Per Semester			14	28

V. Teaching strategies of the course:

- 1-Interactive lectures (Brain storming, seminars, discussion).
- 2-Practical lessons in dissecting room
- 3- Self learning followed by active learning (beer article and discussion in group).
- 4- Audiovisual aids materials.
- 5- Students presentations

3-Assessment Methods:

- 1-Practical exam
- 2-Oral exam
- 3- Quizzes
- 4- Report assignments
- 5- Discussion
- 6- Written exam

VI. 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 and quizzes and Assignments	2-14	10	10%	a1- a2- b1- b2- c1- c2- d1-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
6	Final Exam	16	55	55%	a1- a2- b1- b2- c1- c2

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	Total	100	100%
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VII. 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

VIII. Learning Resource (MLA style or APA style)s:	
1- Required Textbook(s) (maximum two)	
1- Alys L, Wilson JC, Clarke J, et al. Developmental animal cruelty and its correlates in sexual homicide offenders and sex offenders. In: Linzey A, ed. The Link Between Animal Abuse and Human Violence. Brighton, UK: Sussex Academic Press; 2009:145–162.	
2. Amadasi A, Borgonovo S, Brandone A, et al. The survival of metallic residues from gunshot wounds in cremated bone: a radiological study. Int J Legal Med. 2012;126:363–369.	
3. Anderson GS. Comparison of decomposition rates and faunal colonization of carrion in indoor and outdoor environments. J Forensic Sci. 2011;56(1): 136–142.	
4. Kubo H, Hayashi T, Ago K, et al. Forensic diagnosis of ante- and post-mortem burn based on aquaporin-3 gene expression in the skin. Legal Med. 2014;16: 128–134.	
2- Recommended Readings and Reference Materials	
	John 2013. THE NECROPSY BOOK
3- Essential References	
4- Electronic Materials and Web Sites etc.	
	THE NECROPSY BOOK Revised January 2013
5- Other Learning Material:	
	-

X. Course Policies:	
1	Class Attendance: MANDATORY TO ATTEND ALL COURSE LECTURES
2	Tardiness: Not allowed at all. Students must be in class or in the practical session 10 minutes prior to the beginning of lectures or practical session
3	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse

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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: <ol style="list-style-type: none"> 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 Necropsy

X. - Information about Faculty Member Responsible for the Course:						
Name of Faculty Member	Dr-Aref Saleh Mohammed Abdulmughni,	Office Hours				
Location & Telephone No.	Dhamar university Mobile: +967774501741	SAT	SUN	MON	TUE	WED THU
E-mail	areef2000@yahoo.com					
XI. Course Identification and General Information:						
1	Course Title:	Necropsy				
2	Course Number & Code:	PA578				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	
		1	1			2

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4	Study level/year at which this course is offered:	Fifth Year - Second Semester
5	Pre –requisite (if any):	ANT232, ANT234, PA723, IM566
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
9	System of Study:	Faculty of Veterinary Medicine
10	Mode of delivery:	Dr. Aref saleh mohammed abdulmghni
11	Location of teaching the course:	Faculty of Veterinary Medicine Building

II. Course Description:

The course aimed to provide the student with knowledge and skills in the introduction & classification of Necropsy, and know various methods of External Examination Subcutis and Umbilical Area. Identify the Fatal Diseases or Conditions with No Lesions .

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

After completing this course, students will be able to:

- a1- Identify the Necropsy (External Examination Subcutis and Umbilical Area)
- a2- Describe the Fatal Diseases or Conditions with No Lesions.
- b1- Evaluate the outcome of the Necropsy regarding to the cost/ benefit ratio
- b2- Evidence based veterinary medicine in making decisions to select from different choices
- c1- Perform different types of Necropsy
- c2- Perform different techniques for Necropsy and position according to type of animal.
- d1- Collect of the videos through websites which show for students clinical symptoms on animals of different surgical affections and the surgical operations.
- d2- Demonstrate appropriate professional attitudes and behaviors in different practice situations.

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V. Course Content:

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	General Necropsy Technique	1	1
2	External Examination Subcutis and Umbilical Area	2	1
3	Body Cavity Opening and Evaluation	3	1
4	Fatal Diseases or Conditions with No Lesions	4	1
5	Allergy and Allergy-Like Deaths	5	1
6	Fetal Deaths 95 Poisonings and Toxins	6	1
7	Metabolic-Related Diseases	7	1
8	Mid-Term Exam	8	1
9	Anatomic Diagram s for Necropsy Findings	9	1
10	Fatal Diseases or Conditions with No Lesions	10	1
11	Fatal Diseases or Conditions with No Lesions	11	1
12	Fatal Diseases or Conditions with No Lesions	12	1
13	Representative Stages of Postmortem Lung Inflation	13	1
14	Types of Fat Necrosis	14	1
15	Types of Fat Necrosis	15	1
16	Final Exam	16	1

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Number of Weeks /and Units Per Semester	16	16
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b- Training Aspect:			
Order	Training Tasks	Week Due	Contact hours
1	Gastrointestinal Tract Removal	1	2
2	Abdominal Visceral Removal	2	2
3	Tongue, Thyroids, Esophagus, Trachea, Lung, and Heart Removal	3	2
4	Joint Examination	4	2
5	Eye and Brain Removal	5	2
6	Pituitary Removal and Bone M arrow Examination	6	2
7	Ligaments, Tendons, and Joints	7	2
8	Mid-Term Exam	8	2
9	Remove Mandible	9	2
10	Guttural Pouch Examination	10	2
11	Opening the Heart	11	2
12	Procedures and equipment of general Necropsy	12	2
13	Ligaments, Tendons, and Joints	13	2
14	Ligaments, Tendons, and Joints	14	2
15	Ligaments, Tendons, and Joints	15	2

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16	Final Exam	16	2
Number of Weeks /and Units Per Semester		16	32

V. Teaching strategies of the course:

- 1- Interactive lectures (Brain storming, seminars, discussion).
- 2- Practical lessons in dissecting room
- 4- Self learning followed by active learning (beer article and discussion in group).
- 5- Audiovisual aids materials.

VI. Assessment Methods:

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%

IX. Learning Resource (MLA style or APA style):

1- Required Textbook(s) (maximum two)

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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

	<p>1- Alys L, Wilson JC, Clarke J, et al. Developmental animal cruelty and its correlates in sexual homicide offenders and sex offenders. In: Linzey A, ed. The Link Between Animal Abuse and Human Violence. Brighton, UK: Sussex Academic Press; 2009:145–162.</p> <p>2. Amadasi A, Borgonovo S, Brandone A, et al. The survival of metallic residues from gunshot wounds in cremated bone: a radiological study. Int J Legal Med. 2012;126:363–369.</p> <p>3. Anderson GS. Comparison of decomposition rates and faunal colonization of carrion in indoor and outdoor environments. J Forensic Sci. 2011;56(1): 136–142.</p> <p>4. Kubo H, Hayashi T, Ago K, et al. Forensic diagnosis of ante- and post-mortem burn based on aquaporin-3 gene expression in the skin. Legal Med. 2014;16:</p> <p>•</p>
2- Recommended Readings and Reference Materials	
	John 2013. <u>THE NECROPSY BOOK</u>
3- Essential References	
4- Electronic Materials and Web Sites etc.	
	<u>THE NECROPSY BOOK Revised January 2013</u>
5- Other Learning Material:	
	-

XI. Course Policies:	
1	Class Attendance: MANDATORY TO ATTEND ALL COURSE LECTURES
2	Tardiness: Not allowed at all. Students must be in class or in the practical session 10 minutes prior to the beginning of lectures or practical session
3	Exam Attendance/Punctuality: Attendance is mandatory; absence is accepted with valid excuse
4	Assignments & Projects: All assignments and projects are to be submitted on their due date. Any assignment turned in after the due date will not be accepted without valid and reasonable excuse
5	Cheating: Not tolerated and may lead to EXPELLING the student from the program
6	Plagiarism: Not tolerated AT ALL and may lead to EXPELLING the student from the program

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7	<p>Other policies:</p> <ol style="list-style-type: none">1. All devices must be on silent or at least on vibration during lectures/labs2. 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.
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