



Course Specification of Veterinary Obstetrics and Reproduction

I. Course Identification and General Information:						
1	Course Title:	Veterinary Obstetrics and Reproduction				
2	Course Number & Code:	SR485				
3	Credit hours:	C.H				Total
		Theoretical	Practical	Training	Seminar	
		3	1			4
4	Study level/ semester at which this course is offered:	Fourth Year: First Semester				
5	Pre –requisite (if any):	ANT232, ANT234 PH345, PA372				
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				
9	Location of teaching the course:	Faculty of Veterinary Medicine				
10	Prepared by:	Dr. Saleh Ahmed Mohammed Ali Alomaisi				
11	Date of approval:					

II. Course description:

This course the students should acquire acceptable knowledge about forms of infertility in animals, able to diagnose and handle different forms of infertility in male and female. Identify have good manipulation with an obstetrical case. Moreover, control the puerperal pathological affections.

To well manage a female before, during and after delivery.

This course covers the physiology and pathology of female reproductive systems domestic animals. This course is divided into two major parts: the first part deals with gynecological aspects of the non pregnant female, fertility monitoring and control programs; in the second part, normal and abnormal pregnancy,

Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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Assurance
Ass. Prof. Dr. Huda Al-
Emad

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parturition and postpartum period will be covered.

Management of obstetrical cases in veterinary practice will be covered in this practical course.

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:	
A1-	Demonstrate knowledge and understanding of concepts and principles of general culture, basic science, and supportive to veterinary medicine.	a1-	Recognize the embryological development of the genital system and possible malformation.
A2-	Illustrates basic concepts, principles, and theories related to animal production, animal health and nutrition, behavior management, breeding and care, and animal-related ethical Bloggs.	a2-	Distinguish the economic impact and factors on the delivery of reproductive health care.

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-	Recognize the embryological development of the genital system and possible malformation.	-Lectures using board, data shows and multimedia aids. - brainstorm. - discussion.	-Written exam -Practical exam -Oral exam - Quizzes
a2-	Distinguish the economic impact and factors on the delivery of reproductive health care.	-Self-learning by preparing essay and presentations (computer and faculty library) -Practical training (Clinical	- Report assignments - Discussion

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Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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

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		<p>demonstrations, practice of skills, and discussions).</p> <p>(a) Field visits (farms and villages)</p> <p>(b) General experimental animal teaching</p> <p>(c) Clinical and small group sessions</p> <p>(d) Outpatient clinic</p>	
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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:	
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-	Determine the possible causes of reproductive problems in non-pregnant female.
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-	Choose the best method to handle reproductive problems depending on outcome and prognosis.

Teaching And Assessment Methods For Achieving Learning Outcomes:

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

Course Intended Learning Outcomes (CILOs) in Intellectual Skills.	Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:	-Lectures using board, data	-Written exam

Prepared by
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Quality Assurance Unit
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Al-Shawkany

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b1-	Determine the possible causes of reproductive problems in non-pregnant female.	shows and multimedia aids. - brainstorm. - discussion.	-Practical exam -Oral exam
b2-	Choose the best method to handle reproductive problems depending on outcome and prognosis.	-Self-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) (b) General experimental animal teaching (c) Clinical and small group sessions (d) Outpatient clinic	- Quizzes - Report assignments - Discussion

(C) Professional and Practical Skills:

Alignment of Course Intended Learning Outcomes (CILOs) to Program Intended Learning Outcomes (PILOs) in: **Professional and Practical Skills**

Program Intended Learning Outcomes (Sub-PILOs) in Professional and Practical Skills		Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills	
After completing this program, students will be able to:		After completing this course, students will be able to:	
C1-	Accurately records a comprehensive pathological story of a sick animal including information on healthy behavior and the necessary checks.	c1-	Perform rectal palpation of cow and mare and handle a female in an obstetrical condition.
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	c2-	Detect different method for handling different forms of infertility in male and female.

Prepared by Quality Assurance Unit
Dr. Saleh Alomaisi Dr. Abdulraqeb Alshami

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

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

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



ethics of the profession.			
Teaching And Assessment Methods For Achieving Learning Outcomes:			
Alignment of Learning Outcomes of Professional and Practical Skills to Teaching and Assessment Methods:			
Course Intended Learning Outcomes (CILOs) in Professional and Practical Skills		Teaching strategies/methods to be used	Methods of assessment
After completing this course, students will be able to:		-Practical training (Clinical 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	Written exam -Practical exam -Oral exam - Quizzes - Report assignments - Discussion
c1-	Perform rectal palpation of cow and mare and handle a female in an obstetrical condition.		
c2-	Detect different method for handling different forms of infertility in male and female.		

(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:	
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	d2-	Know how to transfer skills via the network connection.

Prepared by
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Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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

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



technology.			
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:		-Self-learning by preparing essay and presentations (computer and faculty library) - Scientific visits - discussions - Assignments	-Written exam -Practical exam -Oral exam - Report assignments - Discussion - Note performance
d1-	Communicate effectively with animal's owners using appropriate communication skills.		
d2-	Know how to transfer skills via the network connection.		

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	Ontogenesis Different reproductive pattern in farm animal Physiology of pregnancy	a1- a2- b1- b2-c1- c2- d1- d2	-	2	6

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

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2	Pathology of pregnancy Hormonal control of reproduction in male	a1- a2- b1- b2-c1- c2- d1- d2		2	6
3	Normal parturition Infertility due to hormonal disturbances	a1- a2- b1- b2-c1- c2- d1- d2		1	3
4	Infertility due to congenital malformation Dystocia	a1- a2- b1- b2-c1- c2- d1- d2		2	6
5	Abnormal puerperium Infertility due to pathology in the female genital tract	a1- a2- b1- b2-c1- c2- d1- d2		1	3
6	Anestrus & repeat breeder	a1- a2- b1- b2-c1- c2- d1- d2		1	3
7	Physiology of male reproduction	a1- a2- b1- b2-c1- c2- d1- d2		1	3
8	Forms of infertility in male	a1- a2- b1- b2-c1- c2- d1- d2		1	3
9	Sexual behavior and sexual desire	a1- a2- b1- b2-c1- c2- d1- d2		1	3

Prepared by
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Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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

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Prof. Dr. Al-Qassim Mohammed Abbas



10	Diseases causing infertility	a1- a2- b1- b2-c1- c2- d1- d2		2	6
Number of Weeks /and Units Per Semester				14	42

b- Training Aspect:				
Order	Training Tasks	CILOs (symbols)	Number of weeks	Contact hours
1	Tools & equipment's	a1- a2- b1- b2-c1- c2- d1- d2	1	2
2	Applied anatomy and differential anatomy of female genital organs	a1- a2- b1- b2-c1- c2- d1- d2	1	2
3	Gynecological examination of female of different species	a1- a2- b1- b2-c1- c2- d1- d2	1	2
4	Pregnancy diagnosis in farm animals	a1- a2- b1- b2-c1- c2- d1- d2	1	2
5	Exam of normal parturient case	a1- a2- b1- b2-c1- c2- d1- d2	1	2
6	Anatomy and differential anatomy of male genitalia	a1- a2- b1- b2-c1- c2- d1- d2	2	4
7	Clinical examination of male	a1- a2- b1- b2-c1- c2- d1- d2	1	2
8	Exam of dystocial case	a1- a2- b1- b2-c1- c2- d1- d2	1	2
9	Sexual desire and sexual behavior	a1- a2- b1- b2-c1- c2- d1- d2	1	2
10	Laboratory diagnosis of genital diseases	a1- a2- b1- b2-c1- c2- d1- d2	2	4
11	Maneuvers in case of dystocia	a1- a2- b1- b2-c1- c2- d1- d2	2	4
Number of Weeks /and Units Per Semester			14	28

V. Teaching strategies of the course:

Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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

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



- 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)

3-Assessment Methods:

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

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)
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Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

Academic Development
Center & Quality
Assurance
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Emad



1	Participation quizzes and assignments	1-12	10	10%	a1- a2- b1- b2-c1- c2- d1- d2
2	Mid-semester exam	7	10	10%	a1- a2- b1- b2-c1- c2- d1- d2
3	Practice exam	13	20	20%	a1- a2- b1- b2-c1- c2- d1- d2
5	Oral exam	13	5	5%	a1- a2- b1- b2-c1- c2- d1- d2
	Final Exam	16	55	55%	a1- a2- b1- b2-c1- c2- d1- d2
Total			100	100%	

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)	
	<ul style="list-style-type: none"> • Course notes: - Veterinary obstetrics edited by the staff members • Note of Gynecology and infectious genital diseases (theoretical and practical). • Note of Andrology (theoretical and practical)
2- Recommended Readings and Reference Materials	
	Applied Veterinary gynaecology and obstetrics. Dr. Pradeep Kumar M.V.Sc., Ph.D. (pursuing) (2012). Canine and Feline Theriogenology. 2012. Equine Reproductive Physiology, Breeding and Stud Management. M.C.G. Davies Morel (2003). Hand book of veterinary obstetrics. 2014. Veterinary obstetrics & genital diseases, G.R. Riberts. Current therapy in theriogenology, D.A. Morrow.

Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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

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



	<p>Current therapy in large animal theriogenology, R.S. Youngquist Veterinary Obstetrics and Genital Diseases Theriogenology, Stephen J. Roberts. David & Charles; 3rd edition (June 1996). Veterinary reproduction & obstetrics, G.H. Arthur, et al.</p>
<p>3- Essential References</p>	
	<p>Applied animal reproduction, H.J. Bearden Fertility and infertility in domestic animals, J.A. Laing. Anatomy and physiology of farm animals, R.D. Frandson. Applied Veterinary gynaecology and obstetrics. Dr. Pradeep Kumar M.V.Sc., Ph.D. (pursuing) (2012). Canine and Feline Theriogenology. 2012 Equine Reproductive Physiology, Breeding and Stud Management. M.C.G. Davies Morel (2003). Hand book of veterinary obstetrics. 2014 Veterinary Obstetrics and Genital Diseases Theriogenology, Stephen J. Roberts. David & Charles; 3rd edition (June 1996).</p>
<p>4- Electronic Materials and Web Sites etc.</p>	
	<p>J. Animal reproduction & Fertility. J. fertility & Sterility. Theriogenology. Arabvet. Com. http://drostproject.org/en_bovrep/guide.html/ http://www.ansci.wisc.edu/jjp1/ansci_repro/index.html http://www.horsetalk.co.nz/breeding/pregtest-118.shtml http://www.vetmed.lsu.edu/eiltslotus/Theriogenology-5361/Bovine%20Index.htm http://www.vetmed.lsu.edu/eiltslotus/theriogenology-5361/equine_index.htm Esarf. Tripod. Com/index. Html. Google. Com.</p>
<p>5- Other Learning Material:</p>	

Prepared by
 Dr. Saleh Alomaisi

Quality Assurance Unit
 Dr. Abdulraqeb Alshami

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

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 Assurance
 Ass. Prof. Dr. Huda Al-
 Emad

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

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Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

Academic Development
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Assurance
Ass. Prof. Dr. Huda Al-
Emad

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



Course Plan of Veterinary Obstetrics and Reproduction

I. - Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Dr. Saleh Ahmed Mohammed Ali Alomaisi	Office Hours					
Location & Telephone No.	Sana'a, Thamar Governorate 776017635	SAT	SUN	MON	TUE	WED	THU
E-mail	alomisy78@gmail.com alomisy78@yahoo.com	8am 2pm	8am 2pm	8am 2pm	8am 2pm	8am 2pm	

II. Course Identification and General Information:						
1-	Course Title:	Veterinary Obstetrics and Reproduction				
2-	Course Number & Code:	SR485				
3-	Credit hours:	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	
		3	-	1		4
4-	Study level/year at which this course is offered:	Fourth Year: First Semester				
5-	Pre –requisite (if any):	ANT232, ANT234 PH345, PA372				
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				
9-	System of Study:	Regular / Semesters				
10-	Mode of delivery:	Lectures and Practical				
11-	Location of teaching the course:	Faculty of Veterinary Medicine Building				

Prepared by Quality Assurance Unit
 Dr. Saleh Alomaisi Dr. Abdulraqeb Alshami

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

Academic Development
 Center & Quality
 Assurance
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II. Course Description:

This course the students should acquire acceptable knowledge about forms of infertility in animals, able to diagnose and handle different forms of infertility in male and female. Identify have good manipulation with an obstetrical case. Moreover, control the puerperal pathological affections.

To well manage a female before, during and after delivery.

This course covers the physiology and pathology of female reproductive systems domestic animals. This course is divided into two major parts: the first part deals with gynecological aspects of the non pregnant female, fertility monitoring and control programs; in the second part, normal and abnormal pregnancy, parturition and postpartum period will be covered.

Management of obstetrical cases in veterinary practice will be covered in this practical course.

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

After completing this course, students will be able to:

- a1. Recognize the embryological development of the genital system and possible malformation.
- a2. Distinguish the economic impact and factors on the delivery of reproductive health care.
- b1. Determine the possible causes of reproductive problems in non-pregnant female.
- Determine the possible causes of reproductive problems in non-pregnant female.
- b2. Choose the best method to handle reproductive problems depending on outcome and prognosis.
- c1. Perform rectal palpation of cow and mare and handle a female in an obstetrical condition.
- c2. Detect different method for handling different forms of infertility in male and female.
- d1. Communicate effectively with animal's owners using appropriate communication skills.
- d2. Know how to transfer skills via the network connection.

X. Course Content:

A – Theoretical Aspect:

Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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Ass. Prof. Dr. Huda Al-
Emad

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Prof. Dr. Al-Qassim Mohammed Abbas



Order	Topics List	Week Due	Contact Hours
1	Ontogenesis Different reproductive pattern in farm animal Physiology of pregnancy	1-2	6
2	Pathology of pregnancy Hormonal control of reproduction in male	3-4	6
3	Normal parturition Infertility due to hormonal disturbances	5	3
4	Infertility due to congenital malformation Dystocia	6	3
5	Abnormal puerperium Infertility due to pathology in the female genital tract	7	3
6	Mid-Term Exam	8	3
7	Anestrus & repeat breeder	9	3
8	Physiology of male reproduction	10-11	6
9	Forms of infertility in male	12	3
10	Sexual behavior and sexual desire	13	3
11	Diseases causing infertility	14-15	6
12	Final Exam	16	3
Number of Weeks /and Units Per Semester		16	48

b- Training Aspect:

Order	Training Tasks	Week Due	Contact hours
1	Tools & equipment's	1	2

Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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Al-Shawkany

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Emad

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2	Applied anatomy and differential anatomy of female genital organs	2	2
3	Gynecological examination of female of different species	3	2
4	Pregnancy diagnosis in farm animals	4-5	4
5	Exam of normal parturient case	6	2
6	Anatomy and differential anatomy of male genitalia	7	2
7	Mid-Term Exam	8	2
8	Clinical examination of male	9	2
9	Exam of dystocial case	10	2
10	Sexual desire and sexual behavior	11	2
11	Laboratory diagnosis of genital diseases	12-13	4
12	Maneuvers in case of dystocia Maneuvers in case of dystocia	14-15	4
13	Final Exam	16	2
Number of Weeks /and Units Per Semester		16	32

Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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

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



XI. 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)

II. Assessment Methods:

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

No.	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment
1	Participation, quizzes and	2-14	10	10%

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Al-Shawkany

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	assignments			
2	Mid-Term Exam	8	10	10%
3	Mid-Term Practical Exam	8	10	10%
4	Final Practical Exam	13	10	10%
5	Oral Exam	13	5	5%
6	Final Exam	16	55	55%
	Total		100	100%

I. Learning Resource (MLA style or APA style)S:	
6- Required Textbook(s) (maximum two)	
	<ul style="list-style-type: none"> • Course notes: <ul style="list-style-type: none"> - Veterinary obstetrics edited by the staff members • Note of Gynecology and infectious genital diseases (theoretical and practical). • Note of Andrology (theoretical and practical)
7- Recommended Readings and Reference Materials	
	<p>Applied Veterinary gynaecology and obstetrics. Dr. Pradeep Kumar M.V.Sc., Ph.D. (pursuing) (2012). Canine and Feline Theriogenology. 2012. Equine Reproductive Physiology, Breeding and Stud Management. M.C.G. Davies Morel (2003). Hand book of veterinary obstetrics. 2014. Veterinary obstetrics & genital diseases, G.R. Riberts. Current therapy in theriogenology, D.A. Morrow. Current therapy in large animal theriogenology, R.S. Youngquist Veterinary Obstetrics and Genital Diseases Theriogenology, Stephen J. Roberts. David & Charles; 3rd edition (June 1996). Veterinary reproduction & obstetrics, G.H. Arthur, et al.</p>
8- Essential References	
	<p>Applied animal reproduction, H.J. Bearden Fertility and infertility in domestic animals, J.A. Laing. Anatomy and physiology of farm animals, R.D. Frandson.</p>

Prepared by
Dr. Saleh Alomaisi

Quality Assurance Unit
Dr. Abdulraqeb Alshami

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

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

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



<p>Applied Veterinary gynaecology and obstetrics. Dr. Pradeep Kumar M.V.Sc., Ph.D. (pursuing) (2012). Canine and Feline Theriogenology. 2012 Equine Reproductive Physiology, Breeding and Stud Management. M.C.G. Davies Morel (2003). Hand book of veterinary obstetrics. 2014 Veterinary Obstetrics and Genital Diseases Theriogenology, Stephen J. Roberts. David & Charles; 3rd edition (June 1996).</p>
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9- Electronic Materials and Web Sites etc.

<p>J. Animal reproduction & Fertility. J. fertility & Sterility. Theriogenology.</p> <p>Arabvet. Com. http://drostproject.org/en_bovrep/guide.html/ http://www.ansci.wisc.edu/jjp1/ansci_repro/index.html http://www.horsetalk.co.nz/breeding/pregtest-118.shtml http://www.vetmed.lsu.edu/eiltslotus/Theriogenology-5361/Bovine%20Index.htm http://www.vetmed.lsu.edu/eiltslotus/theriogenology-5361/equine_index.htm Esarf. Tripod. Com/index. Html. Google. Com.</p>

10- Other Learning Material:

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XIII. 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

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	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, 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.

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