Benha University Faculty of Veterinary Medicine Department of Theriogenology



Course Specification for PhD Degree (2010- 2011)

Course Title: Infectious Abortion

كلية الطبم البيطري وحدة ضمان الجودة





Benha University Faculty of Veterinary Medicine Department of Theriogenology

Course Specification for PhD Degree (2010- 2011)

Course specifications				
Awarding Body:	Benha University			
Teaching Body:	Faculty of Veterinary Medicine			
Department responsible:	Theriogenology			
Program on which the course is given:	PhD degree			
Academic year / Level :	Post-graduate			
Date of specification approval:	Ministerial Decree No 921, on 15/9/1987			
Date of reviewing by department council:	28 /11 / 2010			

A- Basic Information

Title	Infectious	abortion	1-16	Code:	PVD3
Lecture:	2 hours	Practice:	2 hours	Total:	4 hours
D Drofoggi	nalinforma	tion			

B- Professional information:

1- Overall aims of course:

The overall aims of this course are preparation of the graduates to be able to:

- To identify the possible causes and optimum method for handling infertility problems due to infectious causes in males and females
- To efficiently handle infectious reproductive problems in males and females.
- To solve infectious reproductive problems based on scientific and research evidence accompanied with efficient utilization and improving the available resources for achieving the highest benefit.
- To achieve capability in modern laboratory technology to develop practical research project.

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- CIQAP
 - To have the ability of data statistical analysis, results interpretation and dissertation.
 - To prepare scientific projects and research plans in the field of animal reproduction.

2- Intended Learning Outcomes of Course (ILOs)

a- Knowledge and understanding:

By the end of this course the graduates should be able to:

a.1. To describe the most advanced concepts and research techniques and methods used to diagnose infectious causes of infertility in males and females.

a.2. To apply their knowledge and understanding of optimum method for handling, controlling and eradication infectious infertility problems.

a.3. To recognize the different procedures and disciplines those maintain pregnancy and improve the immunity to infectious causes of abortion.

a.4. Up to date research points in the field of dealing with infectious causes of abortion.

a.5. Veterinary professional practice regulations and ethics.

b- Intellectual Skills:

By the end of this course the graduates should be able to:

b.1. To be acquainted with and define the available information about infectious reproductive problems.

b.2. To evaluate their own research data and develop new approach to solve infectious causes of abortion by integration of different knowledge in spite of inadequacy of some resources.

b.3. To develop creative approaches for solving the technical problems or issues associated with the sustained research projects.



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b.4. To identify and evaluate the risk of infectious reproductive problems and it possible consequences.b.5. To understand areas where further researches necessary design a plan for handling, controlling and eradication of infectious reproductive problems.

c- Professional and Practical Skills:

By the end of this master course the graduate should be able to:

c.1. To apply the principles of good experimental design and analysis to their own research project.

c.2. To handle those recent techniques and tools adopted to diagnose

and infectious causes of abortion.

c.3. To select and perform relevant programs of statistical analysis on data obtained for their own research.

c.4. To plan and execute a research project in the field of infectious infertility problems with a consideration to the technical, ethical and safety issues and associated costs.

c.5. To perform essential laboratory skills that underpin techniques associated with diagnosis of viral, bacterial, Mycotic causes of abortion.

d- General and Transferable Skills:

By the end of this course the graduates should be able to

d.1. To have the ability to learn independently in preparation for career of lifelong learning.

d.2. To have information retrieval and library skills.

d.3. To have interpersonal skills and team working ability by successful completion of collaborative learn assignment and the honors researches project.

d.4. To present research finding in oral and written from using arrange of appropriate soft ware(e.g., power point, word, excel and database)



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3- Contents

No.	Торіс	Lect./h	Pract./h	Total/h
4	Bacterial causes	2	2	4
2	Viral causes	2	2	4
3	Parasitic causes	2	2	4
74	Mycotic causes	2	2	4
e5	Common diagnostic techniques	2	2	4
æ	Control & treatment and eradication	2	2	4
c	of infectious diseases causing abortion	ODA		
	Total	12	12	24

Teaching and Learning

4- Teaching Methods

4.1. Lectures

The department council assigns one of the teaching stuff to teach a special chapter in the course syllabus. The entire student will attend one class 3h/week. The teacher will use all the available teaching tools including data show and overhead projectors. The lectures usually take the form of open discussion

4.2. Discussion sessions

The student will be responsible for making a presentation about and discuss one subject (usually related to his thesis subject) in front of all department members

4.3. Information collection

The supervisors will make assignment for their student to collect data and make a complete review about one subject (usually related to his thesis subject).



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4.4. Practical training / laboratory

The students will take the practical course 4hours/week under supervision of one of the department member 2 assistants. During the lab the student will do all practical syllabus by them self.

4.5. Research assignment field

The student will be responsible for searching for the most recent research pint and designs a plan for his research work.

4.6. Visits.

The student will chair in some visits to the surrounding villages and /or farms

4.7. Case studies.

The student will chair in diagnosis and handling cases came to the faculty educational hospital.

5- Student assessment methods

- Practical exam to assess professional and practical skills.
- Oral exam to assess knowledge and information and intellectual skills.
- Written exam to assess knowledge, information and intellectual skills.
- Assignments to assess management of clinical cases.

6- Student assessment grade:

Method	Weighting		Evidence	
	Mark	%		
Written Examination	50	50	Marked and signed written paper	
Oral Examination	20	20	Signed list of oral exam marks	
Practical Examination	20	20	Marked and signed practical exam sheet	
Seminar	10	10	??????	
Total	100	100		

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7- List of references

a- Course Notes

• A concise guide of theriogenology.

b- Essential Text Books:

- Animal breeding and infertility, Michael Meredith, 1995.
- Cattle embryo transfer procedure, John Curtis, 1991.
- Clinical obstetrics and gynecology, Lind Heimer, Davidson, 1994.
- Congenital malformations in lab and farm animals, Kalman, 1989.
- Ultrasonography in obstetrics and gynecology, Peter, Callen, 3rd Ed., 1994.

c- Recommended Reference Books:

- Fertility and infertility in veterinary practices, Laing, et al., 4th Ed., 1988.
- Physiology of reproduction and A.I. in cattle, Salisbury, et al., 1985.
- Reproduction in farm animals, Hafez, 7th Ed., 2000
- Veterinary Reproduction and obstetrics, Arthur, et al., 6th Ed., 1989.
- Current therapy in theriogenology, Morrow, 1980

d- Periodicals

- J. Animal reproduction & Fertility
- J. Fertility & Sterility
- Theriogenology.
- Benha veterinary medical journal.
- Veterinary record
- Journal dairy science
- Journal animal science

e- Web sites

- google.Com
- arabvet.com
- esarf.tripod.com/index.html.

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f- Facilities required for teaching and learning:

- 1- Video Films.
- 2- Data-show.
- 3- Farm animals for clinical application
- 4- Network for technology transfer.
- 5- Overhead projector.
- 6- Laboratory kits for reproductive biotechnology.

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- 7- Computer.
- 8- Field visits.

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Course Co-coordinator:

Head of Department