DETAILS OF THE SUBJECT

Title: REPRODUCCIÓN Y OBSTETRICIA
Code: 101480
Degree/Master: GRADO DE VETERINARIA
Year: 4
Name of the module to which it belongs: CIENCIAS CLÍNICAS Y SANIDAD ANIMAL
Field: REPRODUCCIÓN Y OBSTETRICIA
Character: OBLIGATORIA
Duration: ANUAL
ECTS Credits: 10.5
Classroom hours: 105
Face-to-face classroom percentage: 40%
Non-contact hours: 157.5
Online platform: http://moodle.uco.es/m1516/course/view.php?id=2990

TEACHER INFORMATION

Name: PEREZ MARIN, CARLOS CARMELO (Coordinador)
Department: MEDICINA Y CIRUGÍA ANIMAL
Area: MEDICINA Y CIRUGÍA ANIMAL
Office location: Edif. Francisco Santisteban
E-Mail: pv2pemac@uco.es
Phone: 8716

Name: ARREBOLA MOLINA, FRANCISCO ANTONIO
Department: MEDICINA Y CIRUGÍA ANIMAL
Area: MEDICINA Y CIRUGÍA ANIMAL
Office location: Edif. Francisco Santisteban
E-Mail: faarrebola@uco.es
Phone: 8711

Name: DORADO MARTÍN, JESÚS MANUEL
Department: MEDICINA Y CIRUGÍA ANIMAL
Area: MEDICINA Y CIRUGÍA ANIMAL
Office location: Edif. Francisco Santisteban
E-Mail: pv1domaj@uco.es
Phone: 2136

Name: HIDALGO PRIETO, MANUEL
Department: MEDICINA Y CIRUGÍA ANIMAL
Area: MEDICINA Y CIRUGÍA ANIMAL
Office location: Edif. Francisco Santisteban
E-Mail: v82hiprm@uco.es
Phone: 8363

Name: RODRIGUEZ ARTILES, INMACULADA
Department: MEDICINA Y CIRUGÍA ANIMAL
Area: MEDICINA Y CIRUGÍA ANIMAL
Office location: Edif. Francisco Santisteban
E-Mail: pv1roari@uco.es
Phone: 8715

Name: SANCHEZ DE MEDINA BAENA, ANTONIA LUCIA
Prerequisites established in the study plan

The students should be passed the subject: Clinic Propedeutics

Recommendations

This subject is partially given in English language for a small group of students according to the guidelines of the Plan to Promote Plurilingualism of the University of Cordoba 2014-2017 ([https://www.uco.es/poling/pdf/Plan_Fomento_Plurilinguismo_UCO_14_17.pdf](https://www.uco.es/poling/pdf/Plan_Fomento_Plurilinguismo_UCO_14_17.pdf)).

Theoretical and practical lessons of Obstetrics (see contents section, lessons 32 to 42) will be fully given in English. Theoretical and practical lessons of Reproduction (lessons 1 to 31) will be given in Spanish.

It is advisable that students should have at least a B-1 level in English language to participate in the English course of Obstetrics.

Methodology and evaluation of Obstetrics corresponds to the description included in this guide. However, the students will have an annex to this guide explaining the specific details of Obstetrics.

In general, it is recommended a good level of knowledge in the following subject:

Systematic Anatomy, Embryology, Neuroanatomy Topographical Anatomy, Animal Physiology, General Pathology, Physiopathology, Microbiology and Immunology, Clinical Propedeutics, Imaging Diagnose, Systematic Pathology.

**SKILLS**

CU1
CU2
CU3
CT1
CT2
CT3
CT4
CT5
CT6
CT7
CT8
CE37
OBJECTIVES

1.- To know the concepts, principles and terminology of the subject Reproduction and Obstetrics and its roll into veterinary practice.

2.- To know and understand the reproductive technologies applied to improve production and economy of domestic animal farms and industry.

3.- To know the abnormalities, clinical signs diagnosis and medical or surgical treatment of the main diseases which affects the male and female genital tract of different domestic animal species.

4.- To stimulate the student in self-study and management of searching engines for bibliographic databases.

CONTENT

1. Theoretical content

1. Theory contents

I. INTRODUCTION

Lesson 1: Presentation of the main aspects of the subject

II. BREEDING SOUNDNESS EXAMINATION.

Lesson 2: Breeding soundness examination of the female reproductive tract.

Lesson 3: Breeding soundness examination of the male reproductive tract.

III. CONTROL OF REPRODUCTION.
Lesson 4: Normal cyclical ovarian activity and its control.

Lesson 5: Endogenous and exogenous control of ovarian cyclicity in the cow.

Lesson 6: Endogenous and exogenous control of ovarian cyclicity in small ruminants.

Lesson 7: Endogenous and exogenous control of ovarian cyclicity in the mare.

Lesson 8: Endogenous and exogenous control of ovarian cyclicity in the bitch and queen.

Lesson 9: Endogenous and exogenous control of ovarian cyclicity in the sow.

Lesson 10: Endogenous and exogenous control of male sexual activity.

Lesson 11: Current methods for semen collection.

Lesson 12: Current methods for semen evaluation

Lesson 13: Routine evaluation of semen.

Lesson 14: Advanced evaluation of semen.

IV. ASSISTED REPRODUCTIVE TECHNOLOGIES
Lesson 15: Current methods for semen preservation.

Lesson 16: Artificial insemination in domestic animals.

Lesson 17: Embryo transfer

Lesson 18: In vitro production of embryos.

V. PREGNANCY DIAGNOSIS.


Lesson 20: Pregnancy diagnosis in ruminants.

Lesson 21: Pregnancy diagnosis in the bitch and in the sow.

VI. FERTILITY, SUBFERTILITY AND INFERTILITY.


Lesson 23: Infertility classified by anatomical location: vagina and vulva.

Lesson 24: Infertility classified by anatomical location: cervix and uterus.

Lesson 25: Uterine infection.
Lesson 26: Neuroendocrine and ovarian abnormalities. Genital surgery.

Lesson 27: Abnormalities of coitus, ejaculation and sperm quality in the male.

Lesson 28: Abnormalities of the penis and prepuce.

Lesson 29: Abnormalities of the scrotum, spermatic cord and epididymis.

Lesson 30: Abnormalities of the accessory glands.

Lesson 31: Neuroendocrine and testis abnormalities. Genital surgery.

VII. ABNORMALITIES DURING PREGNANCY.

Lesson 32: Gestational abnormalities.

Lesson 33: Ectopic and prolonged pregnancy, management of twins and pseudopregnancy.

Lesson 34: Pregnancy loss during embryonic and fetal periods.

VIII. ABNORMALITIES DURING PARTURITION. DYSTOCIA AND OBSTETRIC INTERVENTIONS

Lesson 35: Injuries and diseases incidental to parturition.

Lesson 37: Maternal dystocia in the cow and mare: causes and treatments.

Lesson 38: Fetal Dystocia in the cow and mare: causes and treatments.

Lesson 39: Dystocia in small animals, sow and small ruminants.

IX. PUERPERIUM AND THE NEWBORN.

Lesson 40: Abnormalities during puerperium.

Lesson 41: Abnormalities of the mammary gland.

Lesson 42: Abnormalities of the newborn.

2. Practical contents

PRACTICAL SESSIONS IN: CLASSROOM, LABORATORY, VETERINARY TEACHING HOSPITAL AND EXPERIEMNTAL FARM

Session 1: Breeding soundness examination of the male and female reproductive tract using anatomic organs from the slaughterhouse.

Session 2: Vaginal cytology in the bitch.
Session 3: Breading soundness examination of the female (large animals).

Session 4: Breading soundness examination of the female (small animals).

Session 5: Interpretation of endoscopy and ultrasound images of normal and abnormal female reproductive tract in different species.

Session 6: Clinical cases of induction and synchronization of oestrus and ovulation.

Session 7: Breeding soundness examination of the male and methods for semen collection

Session 8: Evaluation of sperm quality parameters.

Session 9: Artificial insemination: material and methods.

Session 10: Preservation of semen: material and methods.

Session 11: Embryo transfer

Session 12: Recovery and evaluation of oocyte using ovaries from slaughterhouse.

Session 13: Ultrasound pregnancy diagnosis.

Session 14: Clinical cases.

CLINICAL CASES AT THE VETERINARY TEACHING HOSPITAL AND OTHER CENTERS
SEMINARS

Breeding soundness examination.

Control of reproduction.

Assisted reproductive technologies

Pregnancy diagnosis.

Fertility, subfertility and infertility.

Abnormalities during pregnancy.

Abnormalities during parturition. dystocia and obstetric interventions

Puerperium and the newborn.

METHODOLOGY

Methodological adaptations for part-time students

Specific learning conditions will be provided for part-time and disabled students
## Face-to-face activities

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## WORK MATERIALS FOR STUDENTS

- Practical cases and examples
- Dossier

## EVALUATION

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(*) Minimum grade necessary to pass the subject

¿Valora la asistencia?: No

General clarifications on instruments for evaluation:

Minimum score to eliminate content: 5 out of 10. Partial qualifications will be valid until the end of the current course.
General clarifications on evaluation and methodological adaptation for part-time students:

Specific learning conditions will be provided for part-time and disabled students

Qualifying criteria for obtaining honors: 10

Aclaraciones generales sobre las evaluaciones parciales, calificación mínima para eliminar materia y periodo de validez:

Minimum score to eliminate content: 5 out of 10. Partial qualifications will be valid until the end of the current course (July).

BIBLIOGRAPHY

1. Basic Bibliography:


2. Further reading:
None.

COORDINATION CRITERIA

- Jobs valid for various subjects
- Joint activities: lectures, seminars, visits ...
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