

## Principle Courses for Master Degree

Name & Code	Contents
<p><b><u>THR- 1210</u></b>  <b>Theriogenology in farm animals (Advanced)</b></p>	<p><b><u>Obstetrics</u></b>            1- Fertilization, embryo and fetal devolvement            2- Types of placentae in different animal species            3- Dam and embryo gestational disorders.            4- Disorders of fetal membranes and fluids.            5- Induction of birth and stages of parturition.            6- Dystocia in cattle, mare, sheep and camel.            7- Different methods of treating dystocia.            8- Cesarean section and embryotomy            9- Puerperium (Normal and abnormal).</p> <p><b><u>Gynecology</u></b>            1- Functional anatomy of the female genital system.            2- Estrous cycle and factors affecting it.            3- Estrus detection.            4- In vitro fertilization.            5- Embryo transfer.            6- Pregnancy diagnosis (clinical, hormonal, ultra-sonographic methods)            7- Infertility (congenital, hormonal, pathological and environmental causes).            8- Repeat breeding and its treatment in farm animals (cattle, sheep, mare and camel).</p> <p><b><u>Artificial Insemination and Andrology</u></b>            1 – Comparative and functional anatomy of the male reproductive system.            2 – Sire Selection.            3 – Collection, evaluation, dilution and preservation of semen.            4 – Technique of insemination.            5 – Sexual Behavior.            6 – Infertility: congenital and acquired disorders of the male reproductive system in farm animals (Cattle, sheep, equine and camelids).</p>
<p><b><u>THR- 1211</u></b>  <b>Theriogenology of pets and wild animals (Advanced)</b></p>	<p><b><u>Obstetrics:</u></b>            1 – Fertilization and pregnancy in pets and some wild animals in natural habitat in captivity.            2 – Types of placentae and pregnancy duration.            3 – Pregnancy diagnosis using ultrasonography            4 – Parturition and puerperium.            5 – Dystocia.            6 – Cesarean section.</p> <p><b><u>Gynecology</u></b>            1- Functional anatomy of the female reproductive System.            2- Estrous cycle and factors affecting it.            3- Sexual behavior.            3 – Seasonality of breeding.            4 – In vitro fertilization and embryo transfer.            5 – Pregnancy diagnosis (hormonal, ultrasound)</p>

**6 – Infertility (congenital, hormonal, pathological and environmental causes in pets and some wild animals in natural habitats and in captivity).**

**Artificial Insemination and Andrology:**

**1 – Functional anatomy of the male reproductive system**

**2 – Semen collection, evaluation and preservation.**

**3 – Technique of Insemination.**

**4 – Sexual behavior.**

**5 – Infertility and disorders of male genitalia in pets and some wild animals in natural habitats and in captivity).**