

Study Programme : PhD in Biology			
Degree level: Doctoral degree			
Course Title: Reproductive endocrinology			
Professor: Radmila Kovačević, Tatjana Kostić, Silvana Andrić			
Elective Course			
Number of ECTS: 15			
Prerequisites:			
Course Objective: An integrated approach to the study of endocrinology of reproduction; fundamental points common to reproductive events in all or most mammal species; understanding of experimental approach and results in the field of reproductive endocrinology			
Course Outcome: After successfully completing of this course student should acquire ability of critical analysis of the experimental results in the field of reproductive endocrinology. To develop transferable skills particularly in relation to data processing and presentation of scientific material by means of active development of teamwork.			
Course Content: <i>Theoretical part</i> Neuroendocrinology of reproduction. Testicular function in the adult, spermatogenesis. Testicular steroidogenesis . Regulation of testicular function. Ovarian function in the adult. Follicles grow and mature. Ovulation. Steroid synthesis in ovary. Follicular development and ovarian cycle, menstrual and estrous cycle. Puberty and the maturation of the hypothalamic-pituitary-gonadal axis. Action of steroid hormone in the adult. Female and male infertility. Assisted reproduction. Fertilization, implantation and the establishment of placenta. Endocrinology of the pregnancy. Parturition, lactation and maternal behaviour. Menopause. Stress and reproduction. Endocrine disrupting chemicals and reproduction. <i>Other</i> Assay; journal club <i>Student research work</i> Small laboratory-based project for a group of student			
Reading List: 1. Jonson M.H., Essential reproduction, Blackwell, 2007. 2. J.F.Straus and R.L.Barbieri: Reproductive Endocrinology, Elsevier Saunders, 2004. 3. Reviews and scientific papers			
Total hours:			
Lectures: 5	Practicals:	Other:	Student research work: 5
Methods of instruction: Lectures, consultation, experimental work, journal club			
Assessment (maximum number of points 100)			
Requirements			
Remark: Project – 40 Journal club – 15 Oral - 45			