

Level: master				
Course title: TECHNIQUES OF ASSISTED REPRODUCTION				
Status: obligatory				
ECTS: 8				
Requirements: -				
Learning objectives Learning objective is to introduce students to assisted reproductive techniques (ART) used in infertility treatment of married couples.				
Learning outcomes Upon successful completion of pre-examination and examination tasks, students are able to: prepare medium; handle oocytes, spermatozoids and embryos; identify egg cell in follicular fluid; prepare spermatozoid for fertilisation of the egg cell; prepare the egg cell for fertilisation (ICSI or IVF methods); assess the fertilisation of the egg cell; master the techniques of embryocultivation and embryo transfer; master cryopreservation technique of gametes, zygotes and embryos and blastomere extraction for pre-implantation genetic diagnosis (PGD); successfully keep documentation and laboratory protocols.				
Syllabus <i>Theoretical instruction</i> Introduction to necessary prerequisites a laboratory for assisted reproduction should meet: conditions, staff, equipment, and techniques of ART procedure; laboratory safety; safe handling of infective agents and biological material (safety measures for staff and patients), identification of patients, their gametes, zygotes and embryos; meeting the conditions regulated by ESHRE (European Society of Human Reproduction and Embryology) for a certificate of clinical embryologist; legal and ethical aspects ART. <i>Practical instruction</i> Every student will spend some time at Centre of Human Reproduction to observe the ART procedures. Practical skills training in ART procedures on human biological material, approved for scientific and experimental purposes.				
Weekly teaching load				Other: 25
Lectures: 2	Exercises: -	Other forms of teaching:5	Student research: -	