

Subject name	In Vitro Cultures of Animal Tissues and Cells	
Subject code	H.HTCa.INVLSM.HZOXY	
Department	Animal Biotechnology	
Faculty	Animal Sciences	
Subject supervisor/Lecturer	Dr. Anna Wójtowicz	
General information	semester	summer
	ECTS credits	4
	Lectures total	15hrs
	Laboratories	15hrs
Objective and general description	<p>The main objective of the course is to understand the basic rules and requirements necessary for the culture of cells and tissues collected from different mammalian species and cell lines under in vitro/sterile conditions</p> <p><u>Lectures:</u> Introduction – historical outline of tissue and cell culture Physical aspects of Tissue Culture Laboratory Detection of Contamination and safety considerations in cell culture laboratory Dispersion and disruption of tissues Monolayer culture technique Tissue and cell engineering Mass culture of mammalian cells. Laboratories Cleaning and sterilization facilities Media preparation and storage facilities Work area for aseptic manipulation of cell cultures Equipment for routine cell maintenance Culture of granulose cells from ovarian follicles</p>	
Assessment method		
References	<ol style="list-style-type: none"> 1. Davis J.M. Basic cell culture. Oxford University Press. 2001 2. Freshney R.I. Culture of Animal cells. A manual of basic techniques. 4th edition. Wiley-Liss. 2001 3. Fundamental techniques in cell culture. A laboratory handbook. SIGMA. 2002 4. Jakoby W.B., Pastan I.H. Cell culture for biochemists. 2nd edition. Elsevier 1990 5. Stokłosowa S. Three dimensional tissue and organ models in vitro: their application in basic and practical research. Fol. Histochem.Cytobiol.39: 91-96,2001. 	