Course Title	Bioethics and Scientific Integrity					
Course Code	BMS323					
Course Type	Compulsory					
Level	Bachelor (1st Cycle)					
Year / Semester	3 <sup>rd</sup> Year / 6 <sup>th</sup> Semester					
Teacher's Name	ТВА					
ECTS	5	Lectures / v	veek	2 Hours	Laboratories / week	None
Course Purpose and Objectives	The main objective of this course is to introduce students to the concept of Bioethics and acquaint them with major developments in the field of Biomedical Sciences that need to be critically addressed and seen through the filter of Bioethics. The course will also familiarize the students with the current legislation in Cyprus, Europe and worldwide regarding major bioethical issues and debates. Finally, students will be exposed to pertinent case-studies related to scientific integrity, which will enable them to evolve to excellent scientists of high bioethical standards					
Learning Outcomes	<ul> <li>Upon successful completion of this course the students will be able to:</li> <li>Recall key concepts in Bioethics and describe the main philosophical and ethical issues in modern Biomedical Sciences</li> <li>Recall the legal framework, both international and national, governing bioethics, and describe the role of the Bioethics Committee in Cyprus</li> <li>Summarize and describe the major contemporary bioethical considerations</li> </ul>					
Prerequisites	None		Co-re	equisites	None	
Course Content	<ul> <li>Introduction to Bioethics: Life, Ethics, Bioethics</li> <li>The legal framework (international, European, National</li> <li>Modern Bioethical Considerations</li> <li>The ethics behind topics such as:         <ul> <li>genetic engineering and genetically modified organisms (GMOs)</li> <li>reproductive cloning, human cloning</li> <li>therapeutic cloning</li> <li>mapping the human genome and gene therapy</li> <li>new generation of drugs and pharmacogenomics</li> <li>genetic redesign and children on demand</li> <li>prenatal and pre-implantation testing and gene editing</li> </ul> </li> </ul>					

	embryonic stem cells				
	in vitro fertilization				
	euthanasia				
	use of human subjects in research through clinical trials				
	use of fetal tissue in research				
	use of laboratory animals in research (pre-clinical				
	studies)				
	morality of modern technologies (artificial intelligence, misuse of nuclear energy, risk of particle acceleration experiments in environmental pollution - global				
	warming, biological and chemical warfare)				
	<ul> <li>Integrity in science, which includes the following topics:</li> <li>Scientific misconduct</li> </ul>				
	Moral reasoning in the conduct of science				
	Scientific publication and authorship				
	Peer review				
	Patents				
	Copyright				
	Scientific (and laboratory) record keeping				
	The issue of informed consent in studies involving how an activity of the state				
	numan subjects				
	<ul> <li>Conflict of interest in conducting research</li> <li>Conflict of conscience</li> </ul>				
	Conflict of conscience Critical thinking and the case study approach				
	Face- to- face				
Teaching					
Methodology					
Dibliggraphy	Mepham B. Bioethics: an introduction for Biosciences				
вышодгарну	Singer PA, and Viens AM. The Cambridge Textbook of Bioethics				
	Beauchamp TL, Childress JF. Principles of Biomedical Ethics				
	Macrina FL. Scientific Integrity: an introduction text with cases,				
	Americal Society for Microbiology Press				
Assessment					
. Socoanione	Mid Term Examination 200/				
	VIIU - TEITI EXAMINATION 30%				
	rinai ⊑xamination 40%				
	Assignments 20%				
	100%				
	English				
Language					