Sylabusy - Centrum Informatyczne UG





KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego

UNIA EUROPEJSKA EUROPEJSKI FUNDUSZ SPOŁECZNY



Course title

Genetic Engineering

ECTS code not defined

Name of unit administrating study

null			
Studies			
fooulty	field of study	turo	first tier studies (BA), second tier studies (MA)
faculty	field of study		
Faculty of Biology	Medical Biology	-	full-time
		specialty	all
		specialization	all
Faculty of Biology	Biology	type	first tier studies (BA), second tier studies (MA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Biology	Genetics and	type	first tier studies (BA)
	Experimental Biology	form	full-time
		specialty	all
		specialization	all
Faculty of Biology	Natural Resources	type	first tier studies (BA)
	Conservation	form	full-time
		specialty	all
		specialization	all

Teaching staff

dr inż. Karolina Stojowska-Swędrzyńska; dr hab. Wojciech Pokora, profesor uczelni

Forms of classes, the realization and number of hours	ECTS credits
Forms of classes	2
Lecture	ESTIMATION OF WORKING TIME:
The realization of activities	a) Classes requiring direct participation of the
classroom instruction	academic teacher and student:
Number of hours	- participation in lectures: 15 h
Lecture: 15 hours	- participation in the written colloquium: 1 h
	- participation in consultations: 9 h
	b) Student's own work:
	- preparation for discussion and problem solving: 5 h
	- preparation for written colloquium, final
	assessment: 10 h.
	- essay/project preparation: 10 h
	TOTAL: 50 hours.

The academic cycle

2022/2023 summer semester				
Type of course	Language of instruction			
an elective course	english			
Teaching methods	Form and method of assessment and basic criteria for eveluation or			
Conversational lecture with multimedia presentation, problem solving	examination requirements ^{n,} Final evaluation Graded credit			
	Assessment methods			



	-written colloquium: test questions and open-ended tasks problem solving (50%)			
	-essay/project (50%)			
	The basic criteria for evaluation			
	written colloquium comprises questions on lecture material and additional readings specified during the lecture series – minimum 51% of points from the final written test essay/project (problem solving) – minimum 51% of points			
Method of verifying required learning outcomes				
Required courses and introductory requirements				
A. Formal requirements				
Courses containing the basics of molecular biology and mice	robiology			
B. Prerequisites	eins (enzymes), their function and structure; basic knowledge about microorganisms as			
bacteria and yeast, their structure and growth conditions, ba				
Aims of education				
The aim of the course is to provide students with the principles of the techniques, applications and possibilities of the various aspects of genetic engineering.				
Course contents				
DNA amplification, cloning, transformation, transduction, con the possibilities and limitations of the genetic engineering; the structure of the laboratory, work principles, lab zones, ba				
intellectual property and copyrights in genetic engineering Bibliography of literature				
	ya Publishing House 2006 ing 3rd edition (2008) Cambridge University Press; 3 edition (June 23, 2008)			
Brown. T. A. Gene cloning and DNA analysis. An introductic The learning outcomes (for the field of study and	Knowledge			
specialization)	1. The student knows the structure and the function of basic macromolecules,			
	 and the student knows the student and the function of basic macromolecules, molecular, possesses the knowledge about genetic manipulation and tools used in genetic engineering. a. The student explains the theoretical basis of the methods and techniques used in genetic engineering b. The student knows and understands the basic concepts and principles of industrial and intellectual property protection and copyright, can use patent information resources 			
	Skills			
	 4. The student can interpret the data obtained from different molecular methods used in genetic engineering, formulate correct conclusions 5. The student can read scientific papers about genetic engineering with understanding 6. The student can prepare a written presentation on a chosen topic in the field of genetic engineering 			
	Social competence			
	7. The graduate is ready to use recognized sources of scientific and popular science information on genetic engineering in order to broaden their knowledge			
	8. The graduate is ready to systematically update biological knowledge in the field genetic engineering and information about its practical applications			

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Contact

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