Course code	IRL102				
Course title	e METHODS IN DNA TECHNOLOGIES				
General informati	ion				
Study programme	Graduate study	Graduate study "Drug research and		Academ	ic
		development", Graduate study "Biotechnology		year	
	in medicine"				
Lecturer		Doc. Dr. Sc. Kristina	Lecturer		
		Grabušić			
Status					Required
ECTS system					
Course objectives					
		ed dramatic advances of bion			
		scovery of new targets for th	nerape	eutic mani	pulation a
	nt of modern medici				
	1 1 1	tocols of a number of basic			
		idents will be stimulated to	prepa	re differen	nt subjects
	e and use bioinforma	atic tools.			
Course description			•	<u> </u>	
		nethods: enzymes for nuclei		1	
		es, ligase, alkaline phosphat			
1 2		formation and selection of b		· 1 •	
-	n; DNA sequencing	production of mutants and	cmm	enc protei	ins, revers
1	· · · ·	nethods in research of cell	fun	otions. Sc	uthorn on
0					
	Northern blot, quantitative PCR, promoter analysis, analysis of DNA-protei complexes, analysis of chromatin-protein complexes; DNA microarrays; usage c antisense oligonucleotides, transient and stable gene expression, inducible gen				
	expression systems, usage of dominant negative mutants				
	gene manipulation in multicellular organisms: production of transgenic plants ar				
animals	······································				1
	of recombinant pr	oteins in bacteria, eukaryot	tic ce	lls and pla	ants
5. DNK vacci	-	,,	-	I.	
Learning outcome					