Course code	Course group	Volume in ECTS credits	Course hours
BIO5008	C	6	170

Course type (compulsory or optional)	**Compulsory**
Course level (study cycle)	**Master**
Semester the course is delivered	**Spring**
Study form (face-to-face or distant)	

Course title in Lithuanian

TYRIMO DARBAS

Course title in English

RESEARCH PROJECT

Short course annotation in Lithuanian

Savarankiškai analizuojama pasirinktų molekulinės biologijos ir biotechnologijos metodų esmė bei jų taikymo galimybės. Praktiškai įsisavinami metodai, įvertinamas jų tikslumas. Analizuojami sukaupti eksperimentiniai duomenys, atliekamas jų statistinis įvertinimas. Darbas parengiamas rašytinio mokslinio pranešimo forma (iki 25 psl.) ir pristatomas seminare. Rekomenduojama, kad pasirinkti metodai būtų naudojami baigiamajame magistro darbe.

Short course annotation in English

The aim of course project is to analyse scientific and/or technical literature on a chosen molecular biology/biotechnology methods and their possibilities. Realization of methodic, estimation of their accuracies. Analysis of accumulated samples, their statistical analysis. Course project should be prepared in the form of written scientific presentation (volume ca. 25 pages) and presented in a seminar.

Course aim

Self-sufficient analysis of chosen molecular biology and biotechnology methods purpose and application.

Links between course outcomes and criteria of learning achievement evaluation

Course outcomes	Criteria of learning achievement evaluation
Able to: search-out and analyze scientific literature and summarize found results; adjust methods for literature of interest analysis.	
Knowledge of good laboratory practice rules.	
Know how to collect, process, code and save research data.	
Knows how to manage equipment, materials, research methodology.	Student shows theirs: creativity; ability to critically valuate theoretical and practical innovation, others researcher's results; qualified skills at information search and analysis; ability to present their work vocally and written in clear and right manner.
Knows data analysis methods.	
Can make generalization and deduce reasoned conclusions.	
Able to present their work vocally and written in clear and right manner	

Content (topics)

Content scheduled individually, regarding to research thesis.

Distribution of workload for students (contact and independent work hours)

Consultation – 15 hours, examination – 3 hours, individual work – 152 hours.

Structure of cumulative score and value of its constituent parts

Final assessment sums the assessments of paper work (70%), vocally presentation (15%), slide show presentation (15%).

Recommended reference materials

Composed individually by project supervisor

Course program designed by

Prof.dr.Algimantas Paulauskas, Vytautas Magnus University, Faculty of Natural Sciences, Department of Biology.