

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: RAZISKOVALNO DELO
Course Title: RESEARCH WORK

Študijski program in stopnja Study Programme and Level	Študijska smer Study Field	Letnik Academic Year	Semester Semester
MAG Biokemija, 2. stopnja	/	1.	1. in 2.
USP Biochemistry, 2 nd Cycle	/	1 st	1 st and 2 nd

Vrsta predmeta / Course Type:

obvezni / Mandatory

Univerzitetna koda predmeta / University Course Code:

BI217

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Work	Druge oblike študija	Samost. delo Individual Work	ECTS
/	/	/	/	300	300	20

Nosilec predmeta / Lecturer:

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Jeziki / Languages:

Predavanja / Lectures: /

Vaje / Tutorial: /

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Študent oz. kandidat mora imeti predmet opredeljen kot študijsko obveznost.

Prerequisites:

The course has to be assigned to the student.

Vsebina:

Raziskovalno delo mora biti s področja biokemije. Vsebino in naslov soglasno določita študent in izbrani mentor. Študent bo začel z eksperimentalnim delom, vpeljal metode in opravil preliminarne poskuse s področja magistrske naloge. O rezultatih dela bo napisal poročilo, ga oddal v oceno mentorju in ustno predstavil na seminarju.

Content (Syllabus outline):

The research work is carried out in the field of biochemistry; the contents and the title are determined in agreement with the mentor. Students start with experimental work, apply appropriate methods and perform preliminary experiments in the field of the master's research. Experiments are followed by submission of a written report and seminar presentation of the results.

Temeljna literatura in viri / Readings:

Knjige in članki, ki so povezani z vsebino raziskovalnega dela / Books and journal articles relevant to the topic of research.

Cilji in kompetence:

Objectives and Competences:

Namen predmeta je naučiti študenta, kako se začne z raziskovalnim projektom. Pri tem bo pridobil naslednje specifične kompetence:

- uporaba pridobljenih znanj na specifičnem področju delovanja biokemika;
- samostojno opravljanje raziskovalnega in razvojnega dela.

The purpose of the course is to teach students how to approach research. Students acquire the following competences:

- Application of knowledge in the area of biochemistry research;
- Independent research and development work.

Predvideni študijski rezultati:

Znanje in razumevanje

Med opravljanjem raziskovalnega dela bo študent pridobil naslednje kompetence:

- sposobnost samostojnega spremljanja strokovne literature v angleškem jeziku na področju ved o življenju;
- sposobnost povezovanja svojega znanja in soočanja s kompleksnostjo, oblikovanja ocene na podlagi nepopolnih ali omejenih informacij, ki zajema tudi razmislek o etični odgovornosti;
- sposobnost uporabe razumevanj meja zanesljivosti eksperimentalnih podatkov pri načrtovanju nadaljnega dela.

Uporaba

Znanje in pridobljene veščine bo študent lahko uporabil pri opravljanju poklica in opravljanju magistrskega dela.

Refleksija

Povezovanje vseh pridobljenih teoretičnih znanj z reševanjem problemov na področju biokemije ter kritični pogled na uporabnost teh znanj.

Prenosljive spretnosti

Pri delu bo študent pridobil znanja o metodah reševanja kompleksnih problemov, o načinu prezentacije teh znanj v pisani in govorni obliki povezani z ostalimi metodami posredovanja raziskav, ugotovitev itd.

Intended Learning Outcomes:

Knowledge and Comprehension

In the course of the research work, students will gain the following competences:

- Ability of independent following of current life sciences literature in English language;
- Ability of combining previously acquired knowledge and facing complexity, forming judgements based on limited or incomplete information, including ethical constraints;
- Ability to understand the limits of reliability of experimental data in planning further work;

Application

Knowledge and skills will be useful for master's thesis and further professional career.

Analysis

Interconnection of all the previous theoretical knowledge with problem solving in the field of biochemistry, as well as a critical view of the applications.

Skill-transference Ability

In the course of the work students will gain methodological knowledge of solving complex problems, ways of presenting knowledge in both written and oral form, linked to other methods of communicating research, findings etc.

Metode poučevanja in učenja:

Individualno delo mentorja in samostojno študijsko in raziskovalno delo.

Learning and Teaching Methods:

Mentor's individual work and (student's) independent study and research.

Delež (v %) /

Načini ocenjevanja:**Weight (in %)****Assessment:**

Oddano poročilo o delu in ustna predstavitev poročila na seminarju. Oboje oceni mentor. Ocene: opravljen/ni opravljen		Submission of the report and oral seminar presentation. Both parts are graded by the mentor. Grading scale: pass/fail.
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Reference nosilca / Lecturer's references:

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