

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
DR Kemijske znanosti, 3. stopnja	/	1.	1. in 2.
Doctoral programme in Chemical Sciences, 3 rd Cycle	/	1 st	1 st and 2 nd

Vrsta predmeta / Course Type: obvezni / Mandatory

Univerzitetna koda predmeta / University Course Code:

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

Nosilec predmeta / Lecturer: mentor, somentor / Supervisor, co-supervisor

Jeziki / Languages:

Predavanja / Lectures:	slovenski / Slovenian
Vaje / Tutorial:	slovenski / Slovenian

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

Vpis v 1. letnik DŠP Kemijske znanosti.

Prerequisites:

Enrolment into the 1st year of the doctoral programme Chemical Sciences.

Vsebina:

Samostojno znanstveno-raziskovalno delo študenta pod vodstvom mentorja in morebitnega somentorja in ob upoštevanju dosedanjih znanstvenih dognanj na področju tematike doktorske disertacije.

Content (Syllabus outline):

Independent scientific research work conducted by the student under the supervision of the supervisor and co-supervisor (if appointed) and in light of the state-of-the-art in the field of the doctoral dissertation.

Temeljna literatura in viri / Readings:

Glede na naravo individualnega raziskovalnega dela niso predvideni.

According to the nature of the individual research work they are not foreseen.

Cilji in kompetence:

Študent spozna eksperimentalne in teoretične metode znanstveno-raziskovalnega dela na področju predvidene tematike doktorske

Objectives and Competences:

The student learns experimental and theoretical methods of scientific research work in the field

disertacije ter jih je sposoben samostojno uporabiti.

Na osnovi pregleda literature in lastnega preliminarnega znanstveno-raziskovalnega dela ob koncu 1. letnika samostojno predstavi znanstvena izhodišča svoje doktorske disertacije.

of the planned topic of the doctoral dissertation and is able to apply them independently.

Based on a review of the literature and his own preliminary research work, he independently presents the research hypothesis of his doctoral dissertation at the end of the 1st year.

Predvideni študijski rezultati:

Intended Learning Outcomes:

Znanje in razumevanje
Študent razume teoretične osnove metod, ki jih uporablja pri svojem delu ter zna eksperimentalne rezultate ustrezno interpretirati ter kritično vrednotiti.

Študent se seznanja z literaturo na širšem področju predvidene tematike doktorske disertacije.

Knowledge and Comprehension
The student understands the theoretical basis of the methods used in his research work and is able to correctly interpret and critically evaluate experimental results.

The student becomes familiar with the current state-of-the-art in the broader scientific field of his doctoral research work.

Uporaba
Študent je sposoben samostojno načrtovati in izvajati eksperimente v okviru svoje doktorske disertacije ter interpretirati rezultate eksperimentov.

Application
The student is able to independently design and conduct experiments as part of his doctoral dissertation and interpret the results.

Refleksija
Študent je sposoben svoje lastno raziskovalno delo povezati s teoretičnimi osnovami, ki jih je spoznal v prejšnjih stopnjah izobraževanja ter z aktualnimi dognanji s področja raziskav.

Analysis
The student is able to relate his own research to the theoretical principles learned at earlier levels of education and to the state-of-the-art in his scientific field.

Prenosljive spretnosti
Ustno in pisno poročanje ter predstavljanje rezultatov lastnega raziskovalnega dela. Sposobnost individualnega kot tudi timskega dela. Uporaba ustreznih računalniških programov za analizo podatkov in njihovo predstavitev.

Skill-transference Ability
Oral and written reporting. Presentation of the results of one's own research work. Ability to work independently as well as part of a team. Use of appropriate computer programs for data analysis and presentation.

Metode poučevanja in učenja:

Learning and Teaching Methods:

Individualno raziskovalno delo študenta v sodelovanju z mentorjem in somentorjem.

Individual research work of the student supervised by the supervisor and co-supervisor.

Načini ocenjevanja:

Delež (v %) /
Weight (in %) **Assessment:**

Posebno preverjanje znanja se ne predvideva. Napredek ocenita mentor in somentor.		Examinations are not foreseen. Progress is monitored by the supervisor and co-supervisor.
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Reference nosilca / Lecturer's references:

Mentor in somentor morata izpolnjevati pogoje za mentorstvo v skladu s Pravilnikom o doktorskem študiju Univerze v Ljubljani in Pravilnikom o doktorskem študiju na Fakulteti za kemijo in kemijsko tehnologijo.

The supervisor and co-supervisor must fulfill the supervision criteria defined in the Rules and regulations for doctoral studies at the University of Ljubljana and the Rules and regulations for doctoral studies at the Faculty of Chemistry and Chemical Technology.