

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>PREDMET:</b>	SOGLASJE ZA TEMO DOKTORSKE DISERTACIJE
<b>Course Title:</b>	APPROVAL OF THE TITLE OF DOCTORAL DISSERTATION

Študijski program in stopnja Study Programme and Level	Študijska smer Study Field	Letnik Academic Year	Semester Semester
DR Kemijske znanosti, 3. stopnja	/	2.	4.
Doctoral programme in Chemical Sciences, 3 <sup>rd</sup> Cycle	/	2 <sup>nd</sup>	4 <sup>th</sup>

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
		/	/	75	75	5

Nosilec predmeta / Lecturer:

Komisija za spremljanje doktorskega študenta / Doctoral Studies Committee

Jeziki / Languages:

Predavanja / Lectures: slovenski / Slovenian

Vaje / Tutorial: slovenski / Slovenian

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

Vpis v 2. letnik DŠP Kemijske znanosti. Imenovana Komisija za spremljanje doktorskega študenta (KSDŠ).

Prerequisites:

Enrolment into the 2<sup>nd</sup> year of the doctoral programme Chemical Sciences. Appointment of the Doctoral Studies Committee (DSC).

Vsebina:

Študent na podlagi literature s področja doktorske disertacije in v sodelovanju z mentorjem pripravi dispozicijo doktorske disertacije v skladu z navodili.

Dispozicija doktorske disertacije obsega 3 do 7 strani brez literature in vsebuje:

- predlog naslova disertacije v slovenskem in angleškem jeziku, ki izraža vsebino dispozicije doktorske disertacije v čim krajši obliki, po možnosti v enem stavku,

Content (Syllabus outline):

The student prepares the doctoral dissertation proposal based on the literature in the field of the doctoral dissertation and in collaboration with the supervisor, according to the instructions provided.

The doctoral dissertation proposal is written on 3-7 pages (without literature) and contains:

- The proposed title of the doctoral dissertation in Slovenian and English,
- The scientific field of the topic of the doctoral dissertation,

- znanstveno področje teme doktorske disertacije,
- opredelitev raziskovalnega problema, ki obsega:
  - kratek pregled ožjega znanstvenega področja, in prikaz dosedanjih raziskav na področju doktorske disertacije in namen raziskave,
  - jasno predstavljene hipoteze oziroma raziskovalna vprašanja s kratko obrazložitvijo,
  - zasnovo raziskav in opis metod raziskovanja,
  - opredelitev pričakovanih rezultatov in izvirnega prispevka k znanosti, in
  - seznam relevantne literature s področja doktorske disertacije.

Študent v roku enega meseca od imenovanja KSDŠ dispozicijo predstavi pred KSDŠ in zainteresirano javnostjo. KSDŠ dispozicijo oceni v skladu s Pravilnikom o doktorskem študiju Univerze v Ljubljani in Pravilnikom o doktorskem študiju na Fakulteti za kemijo in kemijsko tehnologijo.

- definition of a research problem, consisting of:
  - a brief overview of the specific research field and an account of previous research in the field of the dissertation, as well as the purpose of the research,
  - clearly presented hypotheses or research questions with a brief explanation,
  - research design and description of research methods,
  - definition of expected results and original contribution to science,
  - list of relevant literature in the topic area.

Within one month of the appointment of the DSC, the student must present his proposal to the DSC and the interested public. The DSC evaluates the proposal in accordance with 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.

### Temeljna literatura in viri / Readings:

Individualni viri povezani z raziskovalnim področjem doktorske disertacije.

Literature related to the research field of the doctoral dissertation.

### Cilji in kompetence:

Študent v sodelovanju z mentorjem na podlagi izčrpnega pregleda literature s področja doktorske disertacije in lastnih preliminarnih rezultatov oblikuje cilje doktorske disertacije in hipoteze, ki jih bo v disertaciji preverjal. Pri tem izpostavi izvirni prispevek svoje disertacije k znanosti.

Skozi predstavitev dispozicije pred člani KSDŠ in raziskovalno javnostjo ter skozi diskusijo po predstavitvi študent dobi povratne informacije o smotrnosti predlagane vsebine doktorske disertacije glede na izvirnost vsebine, metodologijo, zastavljene cilje in izvedljivost.

### Objectives and Competences:

The student, in collaboration with the supervisor, formulates the objectives of the doctoral dissertation and the research hypotheses that he will test in the dissertation. The objectives and hypotheses are based on a thorough literature review in the field of the doctoral dissertation and on his own preliminary results. In doing so, he emphasizes the original contribution of his dissertation to knowledge.

Through the presentation of the disposition to DSC members and the interested public, and through the discussion following the

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presentation, the student will receive feedback on the proposed doctoral dissertation in terms of originality, methodology, objectives, and feasibility.

**Predvideni študijski rezultati:**

Znanje in razumevanje  
Študent se nauči javno predstaviti znanstvene vsebine. Pri pripravi predstavitve na podlagi preštudirane literature poglobi svoje znanje na širšem področju svoje doktorske disertacije in zna svoje raziskave umestiti v ta kontekst. Z oblikovanjem raziskovalnih hipotez poglobi svoje razumevanje temeljnih metod znanstvenega dela.

Uporaba  
Študent dobi povratne informacije, ki mu bodo koristile pri načrtovanju nadaljnjega raziskovalnega dela v okviru doktorske disertacije.

Refleksija  
Študent svoje hipoteze in cilje raziskovalnega dela povezuje s pridobljenim teoretičnim znanjem. V okviru tega razume izviren prispevek svojega raziskovalnega dela k znanosti.

Prenosljive spretnosti  
Ustno poročanje ter predstavljanje rezultatov lastnega raziskovalnega dela. Uporaba računalniškega programa za predstavitev. Javno nastopanje.

**Intended Learning Outcomes:**

Knowledge and Comprehension  
The student learns how to present scientific content publicly. The literature review deepens his knowledge in the broader field of his doctoral dissertation. He learns how to place his research in the context of the state-of-the-art. By formulating research hypotheses, he improves his understanding of basic scientific methods.

Application  
The student will receive feedback that will help him in planning his further research for the doctoral dissertation.

Analysis  
The student links his research hypotheses and the objectives of his research work to the theoretical knowledge he has acquired. In this context he understands the original contribution that his research will make to the state-of-the-art.

Skill-transference Ability  
Oral reporting and presentation of the results of one's research work. Use of a computer program for presentation. Public speaking.

**Metode poučevanja in učenja:**

Izdelava dispozicije doktorske disertacije. Ustna predstavitev z uporabo računalniške prezentacije.

**Learning and Teaching Methods:**

Preparation of the doctoral dissertation proposal. Oral presentation using a computer presentation.

Delež (v %) /

**Načini ocenjevanja:**

Weight (in %) **Assessment:**

KSDŠ oceni in potrdi uspešnost priprave dispozicije in njene predstavitve.		The DSC evaluates the proposal and the presentation. If successful, the proposal is approved.
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**Reference nosilca / Lecturer's references:**

KSDŠ imenuje senat UL FKKT v skladu s Pravilnikom o doktorskem študiju Univerze v Ljubljani in Pravilnikom o doktorskem študiju na Fakulteti za kemijo in kemijsko tehnologijo.

The DSC is appointed by the UL FCCT senate in accordance with 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.