

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Magistrsko delo
Course Title:	Master Thesis

Študijski program in stopnja Study Programme and Level	Študijska smer Study Field	Letnik Academic Year	Semester Semester
MAG Kemija, 2. stopnja	Materiali za shranjevanje in pretvorbo energije	2.	4.
USP Chemistry, 2 nd Cycle	Materials for Energy Storage and Conversion	2 nd	4 th

Vrsta predmeta / Course Type:

Univerzitetna koda predmeta / University Course Code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Work	Druge oblike študija	Samost. delo Individual Work	ECTS
/	/	/	/	450	450	30

Nosilec predmeta / Lecturer:

Jeziki / Languages:

Predavanja / Lectures:	angleški / English
Vaje / Tutorial:	angleški / English

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

Predmet imajo opredeljen kot študijsko obveznost študenti, ki so vključeni v projekt "Materiali za shranjevanje in pretvorbo energije +" (MESCS+). Lahko ga vpišejo tudi drugi tuji študenti na mednarodni izmenjavi na UL. Študenti morajo biti vpisani na MŠP Kemija, 2. stopnja, ali imeti podpisan učni sporazum (LA) med UL FKKT in drugimi tujimi izobraževalnimi ustanovami.

This course will be assigned to the students who are part of the "Materials for Energy Storage and Conversion +" (MESCS+) project. It is available to other foreign international exchange students as well. Students must be enrolled to the USP Chemistry, 2nd Cycle or have signed learning agreement between UL FKKT and other foreign educational institution.

Vsebina:

Magistrsko delo se opravlja na področju kemije, smer MESCS+. Vsebina in naslov se določata v soglasju z izbranim mentorjem.

Content (Syllabus outline):

Master thesis is performed in one of the areas of chemistry, study field MESCS+. Contents and master thesis title are agreed upon with the mentor/supervisor.

Temeljna literatura in viri / Readings:

Knjige in članki, ki so povezani z vsebino magistrskega dela.
Books and journal articles related to the research topic.

Cilji in kompetence:

Cilj: Dokončno oblikovanje pričakovanega lika magistranta. Študent bo ob izdelavi magistrske naloge pokazal sposobnosti iskanja in zaznavanja kemijskih problemov in znal poiskati rešitev za tak problem.

Kompetence: Pri delu bo pokazal, da je pridobil večino kompetenc navedenih v programu študija.

Objectives and Competences:

Final formation of the competences of a master degree candidate. Through carrying out research for the master thesis, students should be able to demonstrate the skills for autonomous identification of a problem and finding solutions, thus proving that specific competences from other courses have been acquired.

Predvideni študijski rezultati:

Znanje in razumevanje

Pri izdelavi magistrskega dela bo slušatelj pridobil:

- sposobnosti formuliranja problema,
- sposobnosti samostojnega iskanja ustrezne literature,
- sposobnosti obravnavanja problema v praksi,
- sposobnosti iskanja kvantitativnih rešitev in utemeljevanja ustreznosti rešitev,
- sposobnosti predstavitve rezultatov svojega dela

Uporaba

Znanje in pridobljene veščine bo magistrant lahko uporabil pri opravljanju poklica.

Refleksija

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

Intended Learning Outcomes:

Knowledge and Comprehension

Ability to formulate the problem and research literature independently;
Ability of independent problem managing in practice;
Ability of independent problem solving and argumentation of the solution;
Ability to present results of research work.

Application

Acquired skills are necessary for professional work.

Analysis

Integration of knowledge from different topics from chemistry and supporting sciences;
Development of a critical view on the knowledge applicability.

Prenosljive spretnosti

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

Skill-transference Ability

Ability of solving complex problems using different methods; Ability of presenting research results in a written and oral form.

Metode poučevanja in učenja:

Individualno delo z mentorjem in samostojno študijsko in raziskovalno delo.

Learning and Teaching Methods:

Independent research work supervised by the mentor/supervisor.

Načini ocenjevanja:

Komisija za oceno in zagovor magistrskega dela oceni magistrsko delo in zagovor.

Delež (v %) /

Weight (in %)

Assessment:

Master thesis and its presentation are graded by the thesis committee.

Reference nosilca / Lecturer's references:

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