

<b>Course code</b>	<b>IRL202</b>		
<b>Course title</b>	<b>INTRODUCTION TO SCIENTIFIC RESEARCH</b>		
<b>General information</b>			
Study programme	Graduate study „Drug research and development“, Graduate study „Biotechnology in medicine“, Graduate study „Medical chemistry“	Academic year	
Lecturer	Doc. Dr. Sc. Rozi Andretić Waldowski		
<b>Course grading</b>			
Status	<b>Required</b>	Elective	
ECTS system			<b>7</b>
<b>Course objectives</b>			
<p>Students will acquire knowledge of core principles, definitions and indicators of scientific research and sources of scientific information. Students will learn how to search through the literature and scientific journals at the University library. Furthermore, they will learn how to apply these skills on their own research topics or diploma projects. The students will learn how to perform database searches (e.g. PubMed), how to analyse research articles and extract the most crucial information from these, and finally how to write and present, in a seminar-form, the results of their own research. Students will be encouraged to participate in active discussions with their mentors and colleagues. One part of the course is also planned to be carried out as seminar-type presentations, whereby the students will report the progress of their research projects.</p>			
<b>Course description</b>			
<p>To present and clarify the terminology, determinants and conventions, important for scientific research. To explain the specific factors involved in medical sciences, how scientific research is structured, the divisions of scientific publications, and the rules under which these are created, as well as the basics of what is allowed and what is forbidden in scientific research. The students themselves will carry out database research at the library, and prepare short seminar presentations about the existing types of scientific publications and database searches.</p> <p>Each student, advised by their diploma project mentor and the course-coordinator, analyse an original research article and a review article within the same topic, and prepare a seminar (oral presentation – power point) to discuss with their colleagues and the mentors (round table discussion), how to successfully determine and comprehend the most important conclusions in a given research article.</p> <p>In a progress report, the future graduates will present their results and the progress in the preparation of their own research projects, and discuss these with the course-coordinator, their fellow students and the mentors.</p>			
<b>Learning outcomes</b>			
<p>Upon completion of the course, the students will adopt the basic knowledge of scientific research, the structure of scientific journal articles, scientific methods, and additionally, they will learn to analyse and present scientific publications from the literature as well as their own research results (diploma thesis).</p>			