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| **Course title**Diploma project – ERASMUSProjekt dyplomowy - ERASMUS | **ECTS code**13.3.1262 |
| **Name of unit administrating study** Faculty Chemistry |
| **Studies**

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| **Field of study** | **Type** | **Form** |  |
| Chemistry | Master  | Full-time studies  |  |
| Environmental sciences | Master | Full-time studies |  |

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| **Teaching staff**Supervisor |
| **Forms of classes, the realization and number of hours**  | **ECTS credits 21**classes 210 htutorial classes 25 hstudent’s own work 290 hTOTAL: 525 h - 21 ECTS |
| 1. **Forms of classes, in accordance with the UG Rector’s regulations**

Seminar, laboratory |
| 1. **The realization of activities**

In-class or on-line |
| 1. **Number of hours**

30 h - seminar190 h - laboratory |
| **The academic cycle**winter, summer |
| **Type of course**facultative | **Language of instruction**English |
| **Teaching methods**Diploma Seminar, discussionDiploma laboratory, experimentsDiploma exam | **Form and method of assessment and basic criteria for evaluation or examination requirements**  |
| **A. Final evaluation, in accordance with the UG study regulations** course completion (with a grade) |
| **B. Assessment methods**Lab reportOral exam |
| **C. The basic criteria for evaluation** or exam requirements Evaluation criteria in accordance with the UG Studies Regulations; |
| **Required courses and introductory requirements** Knowledge of basic issues in the field of chemistry and / or related scientific fields |
| **Aims of education*** Planning and performance of experimental research project by each student working under the control /guidance of supervisor.
* Presentation of obtained research results in the form of written master thesis
* Development of in-depth skills in preparing and presenting oral presentations in Polish, mainly in the field of subjects related to the MA thesis
* Preparation for independent collection and processing of scientific information based on literature searches
* Knowledge of the principles of preparing and writing substantive and formally correct simple scientific publications, with particular emphasis on the thesis.
* Monitoring the progress of each student's project work in the framework of the parallel masters' workshop
* Preparation for the master's exam.
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| **Course contents**The program content is varied and depends on the scope of the topic of the master thesis* Rules for searching, collecting and processing scientific information based on various types of literature sources and databases in English.
* Principles of written preparation and editing of substantive and formally correct simple scientific publications, with particular emphasis on the thesis in the field of exact and natural sciences.
* Rules for preparing substantive and formally correct oral presentations at the popular science level in Polish, using multimedia techniques
* Multimedia presentations in the thematic field related to broadly understood organic chemistry, with particular emphasis on the chemistry of amino acids, peptides and proteins, as well as issues related to realized master thesis.
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| **Bibliography of literature** Books and scientific articles are related to the selected speciality mode and / or to the topic of diploma project |
| **Knowledge**Student:* names and describes methods of synthesis and analysis and /or methods of computer theoretical calculations used during realization of master project
* distinguishes and characterizes individual experimental / IT techniques used during realization of research project
* identifies scientific and research apparatuses used during realization of research project and explains the principles of their operations
* demonstrates basic knowledge of legal and ethical conditions related to scientific activities, including protection of intellectual property and copyright;
* demonstrates general knowledge in the field of broadly understood chemistry and biochemistry of amino acids, peptides and proteins and their derivatives.
* presents expanded knowledge about current development directions and the latest scientific achievements in the field of the topic of master thesis
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| **Skills**Student:* performs scheduled experiments, makes observations
* analyzes the obtained results and compares them with available literature data
* draws conclusions from the conducted tests and proves their correctness in based on available literature data
* presents the same content in a different language convention
* systematically collects and prepares documentation of her/his research work
* demonstrates substantive preparation for the use of chemical literature
* demonstrates extended skills in understanding scientific texts in the field of chemistry both in Polish and English;
* develops and uses literature on scientific topics related to her/his master thesis, in order to use/present them in the prepared master's thesis;
* logically and clearly presents the developed topic in the form of an oral presentation with a multimedia presentation;
* substantively participates in the discussion and shows interest in the subject presented by other speakers;
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| **Social competence**Student:* works independently
* correctly defines priorities necessary for realization of her/his own aims
* cares for safety during own-self realization of chemical experiments
* • takes into account the made arrangements for realization of experiments
* maintains criticism in expressing opinions and is open to the opinions of the environment
* shows activity in deepening knowledge of the topics related to the master thesis and understands the need to constantly expand knowledge and skills
* independently works on exploring English-language literature on the topic of master thesis and on related scientific tasks involved in scientific discussions
* demonstrates responsibility for detail and accurate providing scientific information
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